THE
CONTRACT JOURNAL
INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

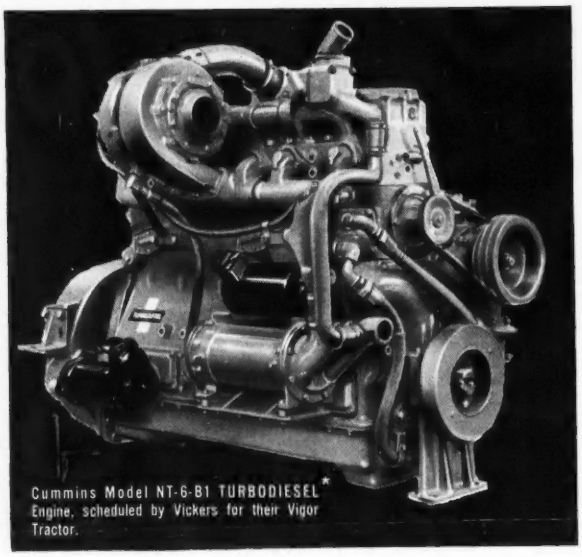
No. 4,206 81st YEAR THURSDAY, FEBRUARY 4, 1960 PRICE 2/-

Over 80% of users of this size of mixer buy the Winget 7 THH

The Winget 7 THH is the best selling 10/7 tilter ever produced by anyone. With its hydraulic hopper operation, built-in batch weigher and drag feeder there is nothing to equal it for producing batches of first-class concrete with so much ease and accuracy.

Winget Limited
Rochester Kent
Tel: Strood, Kent 7276 (5 lines)

NEW CALEDONIA
KUWAIT
FORMOSA
SUDAN
ITALY
ECUADOR
LIBYA
KENYA
GAMBIA
BRAZIL
MOROCCO
HONG KONG
LIBERIA
SWITZERLAND
SYRIA
IRAN
SIERRA LEONE
THAILAND
HOLLAND
KOREA
MADAGASCAR
HAITI
FRENCH CAMEROONS
ARGENTINA
VENEZUELA
NORWAY
BELGIUM
GREECE
GERMANY
IRAQ
FRENCH WEST AFRICA
AUSTRALIA
JORDAN
CHILE
ETHIOPIA
COSTA RICA
UNION OF SOUTH AFRICA
MEXICO


Cummins Model NT-6-B1 TURBODIESEL* Engine, scheduled by Vickers for their Vigor Tractor.

Profit by CUMMINS world-wide service

CUMMINS

At 190 centres in 110 countries there are Cummins* Distributors with spares and factory-trained mechanics. So, wherever you operate, downtime is saved and more profits are earned . . . if you have a Cummins diesel engine.

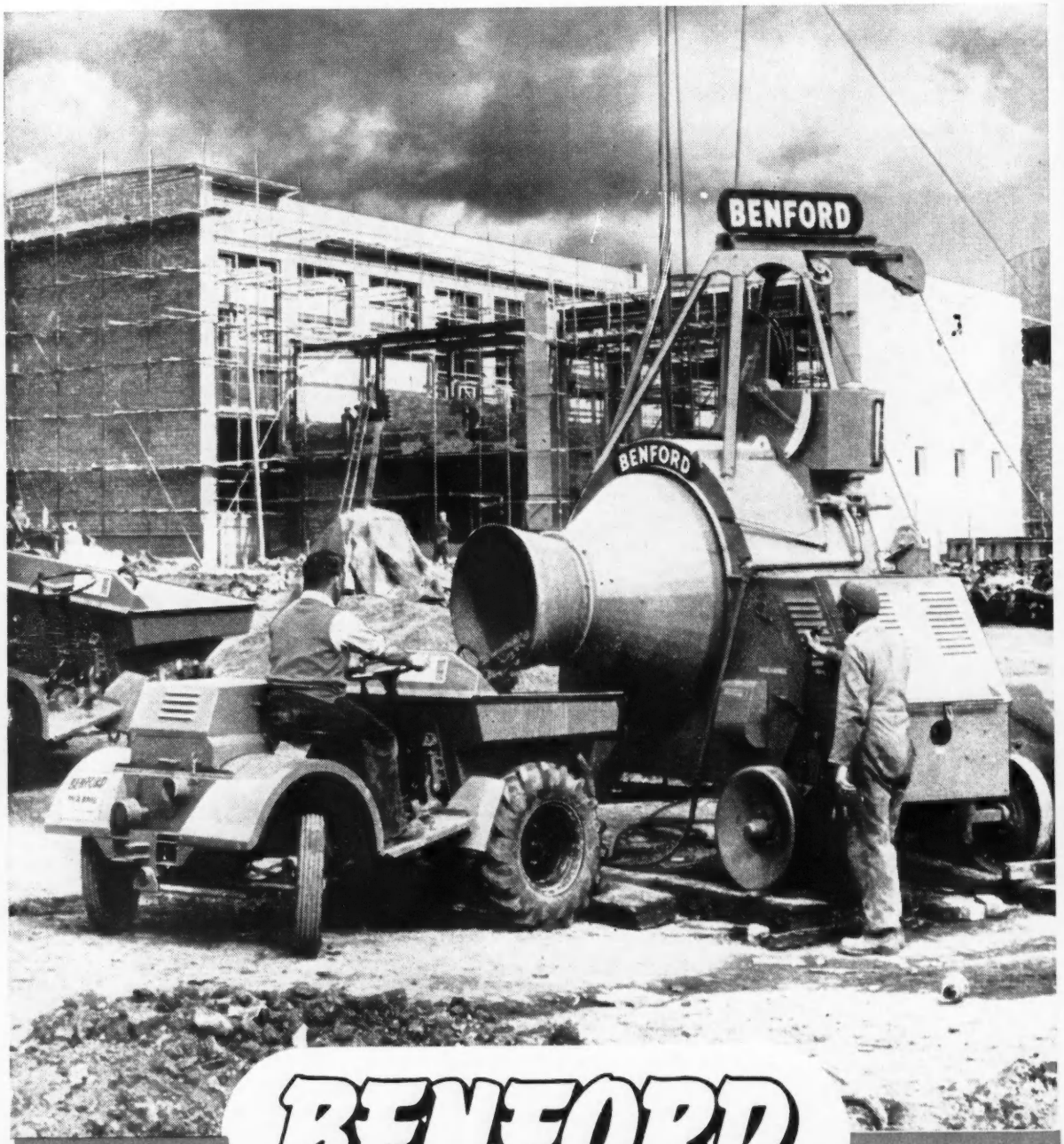
And that's not all. Cummins engines need less maintenance than others. For instance, the PT* Fuel System, exclusive to Cummins, has up to 250 fewer parts than other fuel systems. It is simpler to understand and maintain, gives no timing problems . . . and extracts more power from every gallon of fuel.

But you can profit by dozens of Cummins advantages, as users everywhere have discovered. **At every opportunity, specify CUMMINS DIESELS.**

CUMMINS ENGINE COMPANY LIMITED

Sales Office: 34 St. James's Street, London, S.W.1. Telephone: TRAfalgar 5561
Factories: Shotts, Lanarkshire, Scotland; Columbus, Indiana, U.S.A.
U.K. Distributors: Cummins Diesel Sales & Service Ltd.

*Trade Marks of Cummins Engine Co. Inc.



BENFORD

A name that stands for

PROGRESS IN DESIGN & BETTER VALUE

our Spares Service speaks for itself!

BENFORD LTD THE CAPE • WARWICK • Telephone: WARWICK 1170

the most versatile medium-sized paver finisher

★ Highly mobile and manoeuvrable.

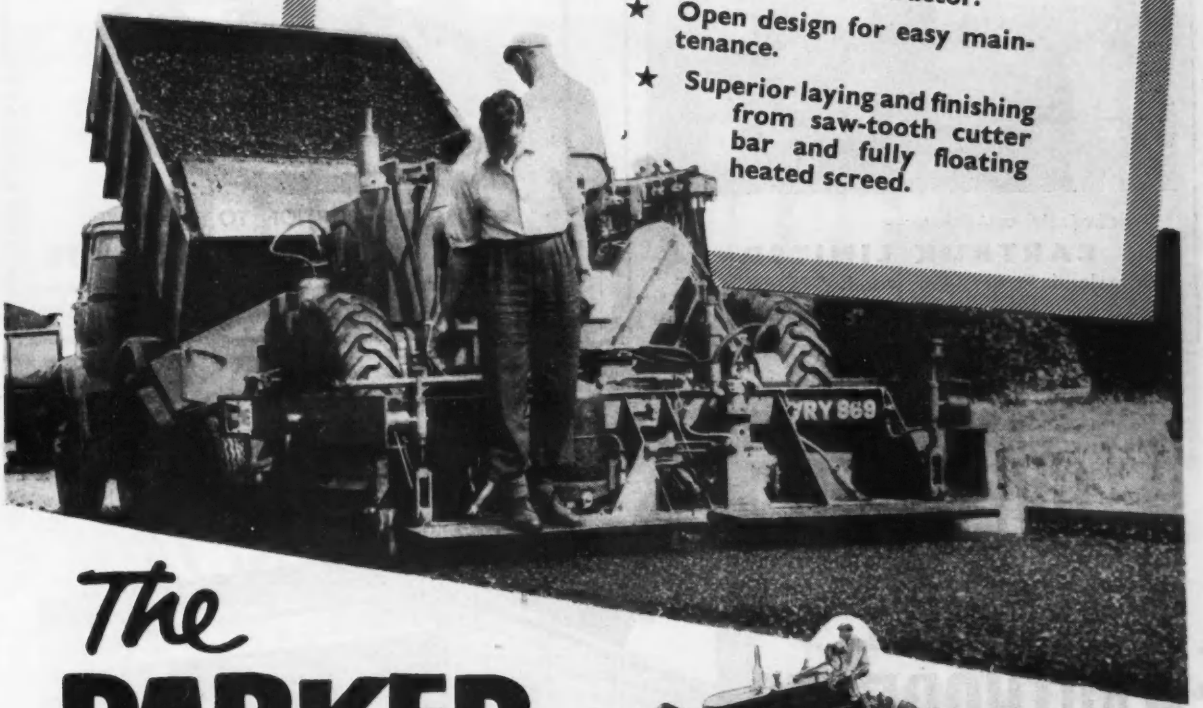
★ Job-to-job speed of 12 miles an hour.

★ Lays all road courses from ½" to 5" in depth, and widths from 3' to 11' at 5' to 45' per minute.

★ Powered by well-known British tractor.

★ Open design for easy maintenance.

★ Superior laying and finishing from saw-tooth cutter bar and fully floating heated screed.



The PARKER PAVER

makes rings round all others on

MOBILITY AND VERSATILITY

The versatile Parker Paver operates where others cannot, is designed for faster, more economical road laying. Write for Publication No. 580.

Proved performance pays!

FREDERICK PARKER LIMITED

VIADUCT WORKS · LEICESTER · Phones: Leicester 62531 (10 lines)

London: Stafford House, Norfolk Street, W.C.2.

Away with the Old,
in with the New

CARTRUK MOBILE UNIT

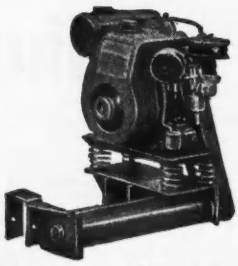
fitted with all Modern Conveniences, including Flush Toilets, Wash Basins with Hot and Cold Water. (Supplied with Elsan Toilets if required.)

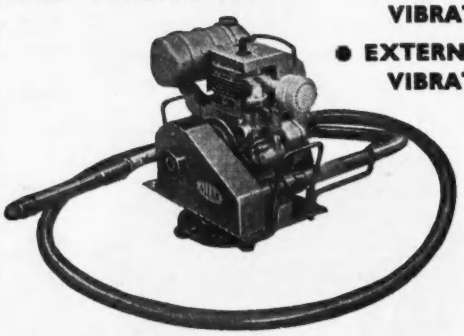
Write for further particulars to :—

CARTRUK LIMITED,
Marsland Street, Portwood, STOCKPORT
or Phone 5227/8.

ALLAM HIRE FROM THE MAKER

- VIBRATING TAMPERS
- PAN VIBRATORS
- BAR CROPPERS
- ROTARY FLOATS
- LIFT & FORCE PUMPS
- INTERNAL VIBRATORS
- EXTERNAL VIBRATORS





HIRE WITH OPTION TO PURCHASE

ALLAM MACHINERY HIRE LTD.

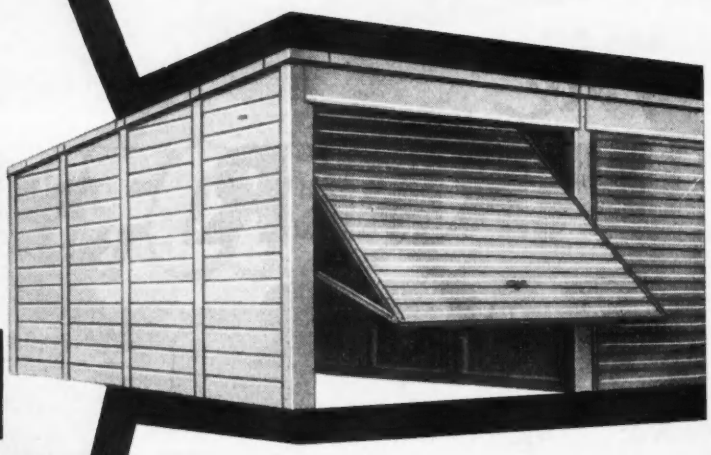
132-135 SLOANE STREET, S.W.1 Telephone: SLOane 9976 (5 lines)

SCOTLAND: 39 Cavendish Street, Glasgow, C.5 Telephone: South 0186

OVER 300 LOCAL AUTHORITIES HAVE CHOSEN BATLEY MULTIPLE GARAGES

— concrete proof of reliability!

Godiva Ribbed Multiple Garages



Batley offer the most adaptable and economical technique in lock-up-garage erection. Can be erected back-to-back; or stepped to suit sloping sites. Fitted with 'Up and Over' or hinged doors as required or available with wooden roller shutter doors as optional extra. Free advisory service; 3 years guarantee; 5 years free fire insurance; Attractive deferred terms; Extensive free delivery area.

Write for free illustrated brochure

ERNEST BATLEY LIMITED

141 Colledge Road, Holbrooks, Coventry. Tel: 89245. Also 141 New Islington, Manchester 4, & 123 Shepperton Road, London, N.1

THWAITES 'NIMBUS' T.3

Cheapest first cost . . . cheapest spares. Made by the diesel dumper specialists. The new 15 cwt. 'Nimbus' T.3 beats them all! With a heaped capacity of 22 cu. ft. a speed of 9/12 m.p.h., heavy duty 3-speed constant mesh change-on-the-move gearbox, etc. It cuts costs with every load. Price **£327 10s.** ex works. *Cheapest in its class.*

ARPS TRENCH-DEVIL
Model MA

Cuts trenches up to 8" wide and down to 3 ft. deep for water, gas and electricity services.

Will work on footpaths . . . pneumatic tyres obviate kerb damage.

Price **£595** ex works.

Ernest Doe AND SONS LTD.

ULTING MALDON ESSEX Tel: Hatfield Peverel 311 (Night 319)

Everyone knows you can get it at Doe's

JCB HYDRA-DIGGA/LOADALL 65

Cut your repair bills with the strongest hydraulic excavator made, and the *only* excavator that will dig square holes in hard material. May we prove these facts by free demonstration. *We are SOLE DISTRIBUTORS in the following counties:* Norfolk, Suffolk, Huntingdonshire Cambridgeshire, Bedfordshire, Hertfordshire, Essex, Middlesex, London, Surrey, E. Sussex and Kent. *And, remember, no other firm offers greater after-sales service than we do!* Prices from **£1854**

Distributors for . . .

The JCB Hydra-Digga/Loadall 65 • Bray Hydraulic Crawler and Wheeled Loading Shovels • Shawnee-Poole Rear Dumps • Track Marshall Angledozers • Walker-Doe Ditcher • Thwaites Dumpers • County Angledozers • Fordson Power Major and Dexta Tractors • Doe-Murex Welders • Parker Concrete Mixers • Holman Compressors • Rotary Hoe Trenchers • Petter Engines • Arps Trenchers • Robot Earth Borers • Fiat Crawler Loader

KEEP OUT WET
KEEP INTACT

Your Weather Protection Problem solved with
DRIX
Plastic Tarpaulins and Covers for all purposes

Low original outlay, light, durable, easy to handle, do not rot

Apply for full details to :

STACK PROTECTION LTD
Drix House, Silver Hill, Winchester. Tel 6073 2635

SENSATIONAL M.O.S. PURCHASE

FANTASTIC OFFER! A 12gn. heater for £5·5·0 carr. 7/6

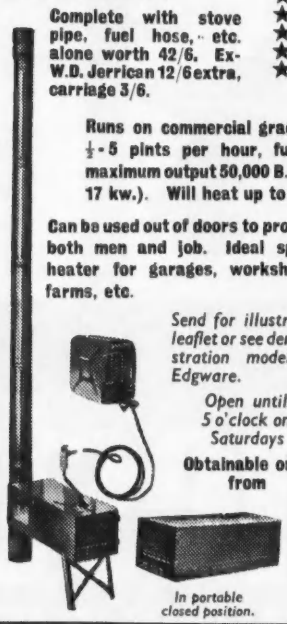
YUKON
OIL BURNING SPACE HEATER

★ GIVES INSTANT HEAT.
★ TERRIFIC OUTPUT.
★ SAFE AND SMOKELESS.
★ ECONOMICAL TO RUN.
★ FULLY PORTABLE.
★ COOKS AS WELL

Complete with stove pipe, fuel hose, etc. alone worth 42/6. Ex-W.D. Jerrican 12/6 extra, carriage 3/6.

Runs on commercial grade paraffin using from ½-5 pints per hour, fully adjustable up to maximum output 50,000 B.T.U.s per hour (approx. 17 kw.). Will heat up to 15,000 cubic feet.

Can be used out of doors to protect both men and job. Ideal spare heater for garages, workshops, farms, etc.



In portable closed position.

Send for illustrated leaflet or see demonstration model at Edgware.

Open until 5 o'clock on Saturdays

Obtainable only from

D. A. MULLARD & CO. LTD.
(C.J.5) B.R. GOODS DEPOT, STATION ROAD, EDGWARE, MIDDX.

MIDLAND TUNNELLING CO., LTD.,
Mining & Civil Engineers

SHAFT & WELL SINKERS

Underground Excavation for

TUNNELS & SEWERS

Concrete linings · Cement injection

Boreholes, Test Pits, etc.

Demolition, etc.

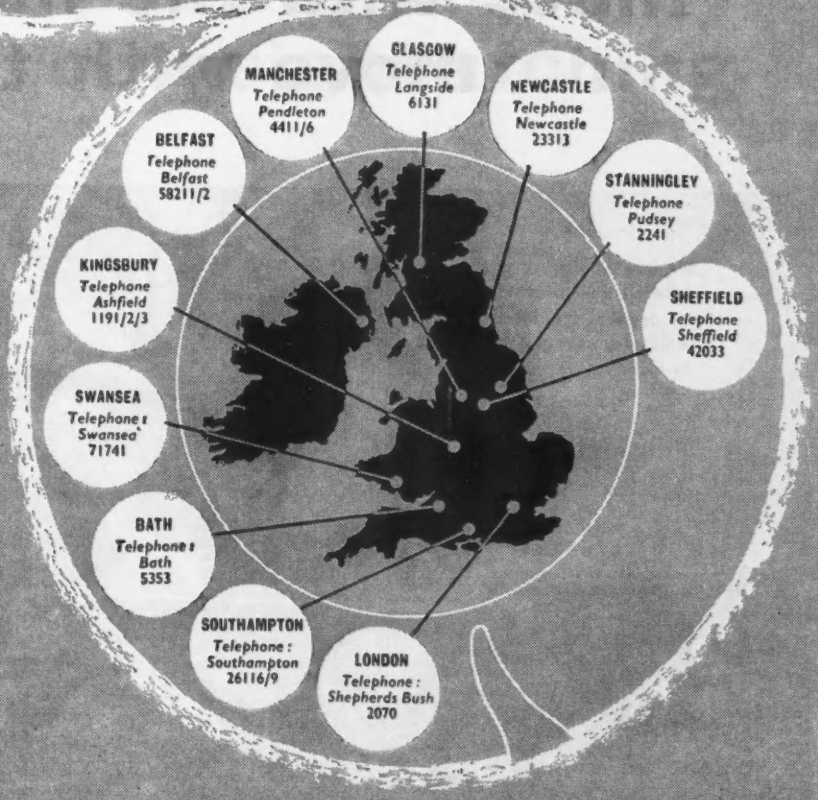
Pneumatic Plant Hirers

MIDLAND TUNNELLING CO., LTD.,

20 Bentinck Road, Hyson Green, Nottingham

Telephone: Nottingham 75182/3

At your finger tip



A Nation-Wide

PLANT HIRE

SERVICE

CONTRACTORS' PLANT FROM THE LARGEST FLEET IN THE COUNTRY

THE 600 GROUP OF COMPANIES

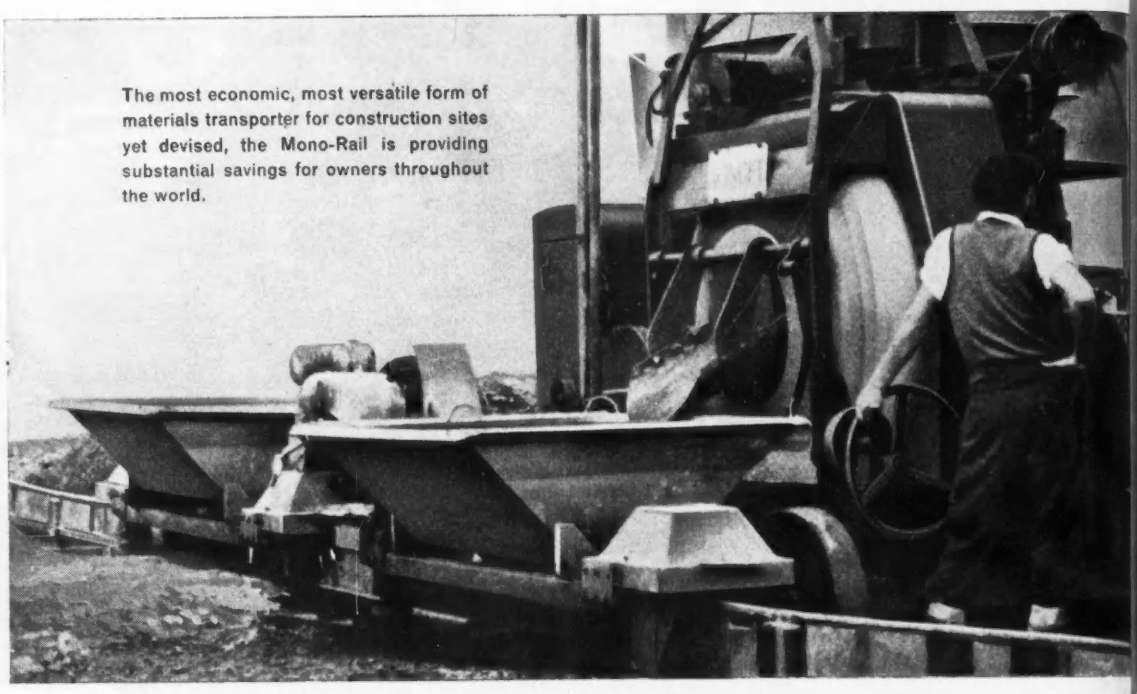
GEORGE COHEN

SONS AND COMPANY LIMITED

WOOD LANE, LONDON, W.12 • STANNINGLEY, Nr. LEEDS • KINGSBURY, Nr. TAMWORTH • BATH
MANCHESTER • NEWCASTLE • SHEFFIELD • GLASGOW • SWANSEA • SOUTHAMPTON • BELFAST

The modern wa

move with the mono-rail
move with the times



just look at these features

- Easily and quickly laid down
- Needs no driver
- No roads or runways to lay
- Rides clear of uneven ground, mud and water
- Stops automatically wherever required
- Discharged by one man
- Ideal for big jobs, small jobs, all jobs

write for fully illustrated booklet TODAY

to handle concrete

raise the pace and quality of weighbatching

THIS PLANT MADE ROAD LAYING RECORD POSSIBLE

Roadmac Batching Plant, owned by Fitzpatrick & Son, and used by the consortium of Cubitts-Fitzpatrick-Shand, during the construction of the St. Albans By-pass.

Concrete for the St. Albans By-pass section of the M.1 was batched by this ROAD MACHINES fully automatic high output Batching Plant. It was on this project that the Contractors set a BRITISH RECORD by laying 1,320 ft. of 26 ft. wide carriageway in eleven hours.

A ROAD MACHINES PRODUCT ROAD MACHINES (DRAYTON) LTD

(Member of the Muir Robb Group of Companies)

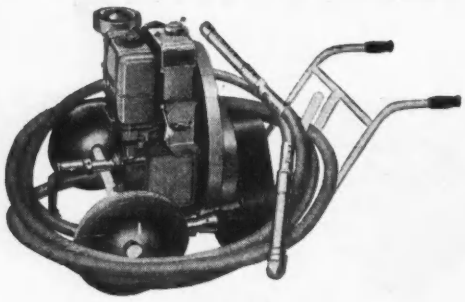
ROAD MACHINES (DRAYTON) LTD

Road Machines (Drayton) Limited West Drayton Middlesex

Tel: West Drayton 3721 Grams: Roadmach West Drayton

ALLAM FOR BETTER CONCRETE . . .

ENTIRELY NEW DIESEL DRIVEN INTERNAL VIBRATOR



TYPE D

OUTSTANDING ADVANTAGES

★ ONE OR TWO FLEXIBLE DRIVES OR VIBRATING UNITS, AS REQUIRED, CAN BE DRIVEN SIMULTANEOUSLY.

★ FIVE SIZES OF INTERCHANGEABLE VIBRATORS, OIL MIST LUBRICATED.

★ FLEXIBLE SHAFTS AND VIBRATORS INTERCHANGEABLE WITH ALL OTHER ALLAM POWER UNITS.

★ QUICK RELEASE FLEXIBLE SHAFTS.

★ AUTOMATIC CENTRIFUGAL CLUTCH.

★ NO GEAR TROUBLES, EASILY MAINTAINED.

★ MOUNTED ON SPECIAL TROLLEY, AS STANDARD.

IMMEDIATELY ADAPTABLE FOR POLISHING, GRINDING, etc.

E·P·ALLAM & CO. LTD.
132-135 SLOANE STREET, S.W.1. TELEPHONE: SLOANE 9976 (5 lines)
SCOTLAND 39 CAVENDISH STREET, GLASGOW, C.5. TELEPHONE: SOUTH 0186

STRANGFORD, LTD., Belfast and Dublin.
A. GUNN AND CO., Altrincham, Cheshire.
O. L. DAVIES, Port Talbot, Glam.
J. LEWIS (MACHINERY), LTD., Burslem, Stoke-on-Trent.
G. B. CORNER AND SONS, Leeds and Nottingham.
JOHN ROULSTONE, LTD., Newcastle upon Tyne.
W. R. SELWOOD, Chandler's Ford, Hants.

IN EVERY SPECIALISED FIELD

ONE LEADER STANDS OUT!

...IN CHAIN LINK FENCING-ITS...

FLEXTELLA

Ask the Big Suppliers and Users!

J. B. CORRIE (FLEXTELLA) LTD · PETERSFIELD · HANTS · Tel: PETERSFIELD 1255/9

Vales of England *No. 3 of a series*

The Vale of Edale

Here is a broad and smiling vale through which the little River Noe wanders, gathering on its way countless mountain streams. Mighty hills surround it . . . *the Kinder Range with Groundslow Knoll and Ringing Roger, Brown Knoll and Mamtor and Lose Hill* . . . names to remember with longing and affection by all who have visited this lovely Vale. But when you are thinking of Plant Hire the 'Vale' to remember is . . .

VALES PLANT REGISTER LTD

14 LOWER GROSVENOR PLACE, VICTORIA, LONDON, S.W.1

VICTORIA 3501, 7531, 8080, 9886 (15 lines)

WATFORD WORKS: COW LANE, GARSTON, WATFORD

GARSTON 3266/7/8

SPECIALISTS IN PLANT HIRE FOR NEARLY 40 YEARS

VALES PLANT HIRE . . .

any plant

. . . anywhere

INTERNATIONAL OPERATORS—

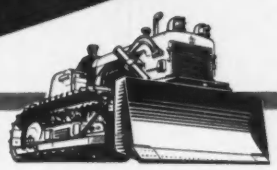
International

CONSTRUCTION EQUIPMENT

BEAT HIGH MAINTENANCE COSTS

by fitting genuine IH service parts

Excessive maintenance costs can quickly eat into your profits. Keep your maintenance costs down by replacing broken or worn parts with *genuine* IH service parts. They last longer than non-standard parts because they're made to the strict specifications laid down by IH engineers. *Genuine* IH service parts are tested and re-tested at every stage of production, to maintain their constant high standard of quality. Keep your maintenance costs down and your profits up! Fit *genuine* IH service parts that are perfectly matched to your IH machines. And because they are perfectly matched and of such high quality, *you need fit less of them—less often.*



International CONSTRUCTION EQUIPMENT DEALERS IN GT. BRITAIN AND N. IRELAND

JAMES BOWEN & SONS LTD
EDINBURGH · GLASGOW
ABERDEEN

R. CRIPPS & CO. LTD
NOTTINGHAM · MANCHESTER
SHILDON

SAVILLE (TRACTORS) LTD
LONDON · STRATFORD-ON-AVON
CARDIFF · BELFAST

WESTERN CONTRACTORS SERVICES LIMITED
BRISTOL

INTERNATIONAL HARVESTER COMPANY OF GREAT BRITAIN LIMITED · HARVESTER HOUSE · 259 CITY ROAD · LONDON EC1

ANY MOMENT NOW . . .

Like the housewife a Plant Engineer cannot always keep a watchful eye on his crawlers. That is why more and more Plant Engineers avoid trouble with breakdowns in expensive plant and machinery by using VIGZOL Lubricants.

You can safely leave your plant to its own devices when it is protected by the only specialised processed oil for the toughest jobs. There is a Lubrication Specialist ready to advise you only a phone call away at Greenwich 4361.

ESSENTIALLY BRITISH
VIGZOL
LUBRICATION

THE VIGZOL OIL COMPANY LTD., VIGZOL HOUSE, GREENWICH, LONDON S.E.10

Smoothing the way...

SOIL STABILIZATION

It is the aim in any soil stabilization job to finish the road with an even and firm surface in one single pass. This target is realized to the full with the Vogele High-Duty One-Pass Soil Stabilizer. The machine cuts the ground to a depth of 8½ inches in a width of 6½ feet, blending it thoroughly with the binding agents to a high comprehensive strength.

SPECIFICATIONS :

Overall Dimensions :	
Length :	31′ 2″
Width :	8′ 4″
Height :	7′ 4″
Weight :	13 tons
Drive :	
Tractor :	Daimler-Benz Diesel Engine 120 h.p.
Cutter and Mixing Rotors :	Oil Engines, infinitely variable from 0-100 r.p.m.
Compacting-Beam :	Farymann Type DI 2 Diesel
Travelling and Working Speeds :	12 stages from 2-155 yds/min.
Working Width :	6′ 8⅛″
Working Depth :	8¾″
Height Regulation :	
Cutter and Mixing Rotors :	Hydraulic
Screed and Compactor :	Mechanical
Spray Device :	Pump aggregate (350 resp. 500 litres/min.) with overpressure and overflow device.

Direct Indicator and Sight Device for straight travelling

CET

(EQUIPMENT LIMITED)

BURLINGTON WORKS, ABBEY ROAD, PARK ROYAL, N.W.10

Telephone : ELGar 6777 (4 lines)

For heavy-duty excavation work

be guided by examples of proved installations

R-B excavators for mines, quarries and heavy-duty construction work are well known throughout the world for their ability to set high performance standards on the toughest jobs and for their long term dependability.

In the cement industry it is most important that there should be a steady uninterrupted flow of limestone rock from face to crusher. This quarry at Gaurain-Ramecroix, Belgium, is highly mechanised and the loading unit has to be thoroughly reliable so as not to impede operations in the cement plant—therefore the choice was the 110-RB electric quarry shovel.

110-RB 4½ cubic yard shovel or dragline—electric or diesel-electric—standard shovel or high-lift—standard or long, wide caterpillar mounting.

Modern front-end that features exclusive two-section boom, tubular dipper handle and twin dual hoist. Boom design provides great strength for tough digging yet without excess weight.

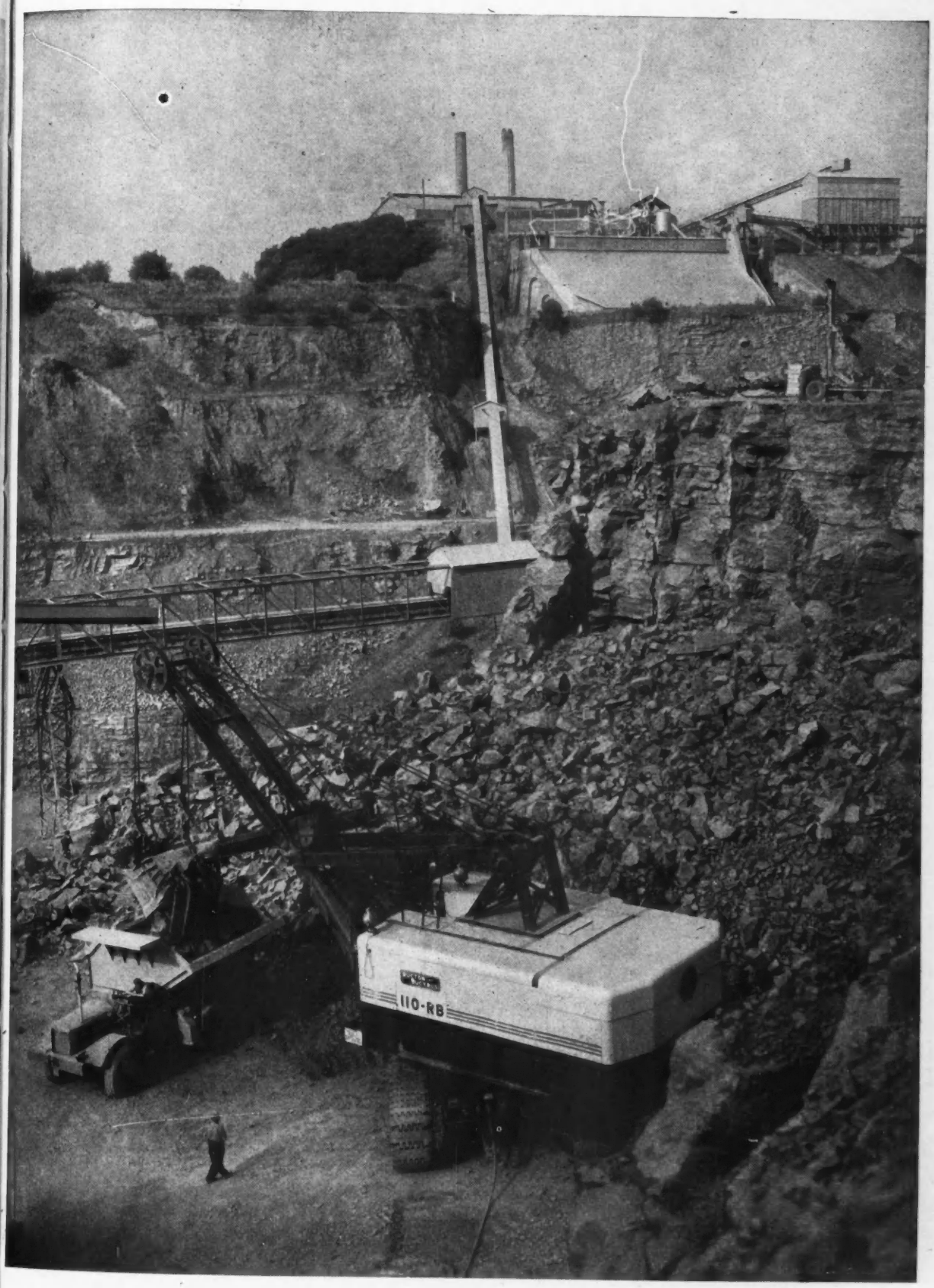
Ward-Leonard electric control speeds acceleration and deceleration for high-speed co-ordinated operation and provides extra torque when needed. Powerful main machinery and easy control for favourable cycle times.

RUSTON-BUCYRUS

Ruston-Bucyrus Limited

EXCAVATOR SPECIALISTS, LINCOLN

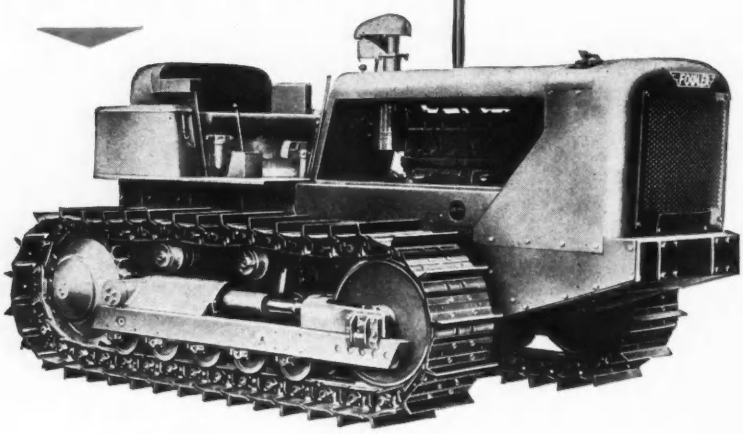
RB4C


110-RB

WARDS
SUPPLY EVERYTHING for the BUILDER & CONTRACTOR

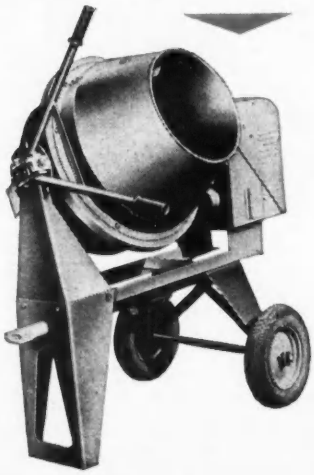
ON SALE OR HIRE

The latest development in the 'Challenger' range of crawler tractors (made by John Fowler & Co. (Leeds) Ltd., and distributed in the U.K. by Wards), is the CHALLENGER 33, powered by Leyland 680 type engine; 125 b.h.p. at 1,700 r.p.m. Speed range: 1.65 m.p.h. to 6.22 m.p.h. Sustained drawbar pull, bottom gear: 24,500 lb., with 28,500 lb. maximum.



4/3 Concrete Mixer, side discharge, weight 3½ cwt. Balanced steel drum with reinforced edge. Also available as end discharge model.

A full range of concrete mixers is available, from 3/2 Capacity, Diesel or electric motor.



COMPRESSORS · CONCRETE MIXERS · CONVEYORS
DERRICK CRANES · DUMPERS · EXCAVATORS · HOISTS and HOIST TOWERS · LOADING SHOVELS · LOCOMOTIVES
LOCO STEAM CRANES · MOBILE CRANES · PORTABLE PUMPS · ROAD ROLLERS · SCRAPERS · TRACTORS
TRACTOR SHOVELS · TOWER CRANES · TRENCHERS · Etc.

THOS. W. WARD LTD
ALBION WORKS · SHEFFIELD
'Phone: 26311 (22 lines) Grams: Forward Sheffield
London Office: Brettenham House, Lancaster Place, Strand W.C.2 'Phone: TEM 1515

Works
GRAYS (Essex) Phone: Grays Thurrock 4744 and 4806
GLASGOW Phone: Scotstoun 8083
BRITON FERRY Phone: 3166
COVENTRY Phone: Bedworth 3011.

COMPACTORS ENGINEERING LTD.

LOCKFIELD AVENUE, BRIMSDOWN, ENFIELD, MIDDX. TELEPHONE: HOWARD 4063-5

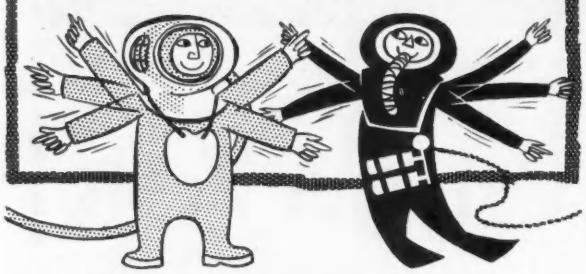
A 1½" DIA. AIR VIBRATOR

The diameter of this new Vibrator is only 1½", its weight only 5 lbs. and its air consumption only 20 cu. ft. The frequency of the model A.15 Vibrator is very high and this high frequency is combined with a large amplitude, resulting in a 'punch' and effectiveness of vibration which is capable of compacting even the driest concrete with a minimum of delay. The Model A.15 Vibrator is also available for hire and you can try it, you can compare it and judge for yourself without obligation.

COMPACTORS ENGINEERING LTD.

LOCKFIELD AVENUE, BRIMSDOWN, ENFIELD, MIDDX. TELEPHONE: HOWARD 4063-5

UNIVERSAL
are everywhere!



all over the place. They live in Liverpool. And Newcastle and Weymouth. Where do they work? Dounreay, in the far north. Winfrith Heath, down in sunny Dorset. Milford Haven deep-water berth. For BP at Pembroke Dock. For Liverpool Corporation Waterworks. Consulting engineers, civil engineers. For ladies who lose their gems. Big job, small job, Universal tackle it. Universal will go anywhere. Use Universal.

UNIVERSAL DIVERS LTD · 40 NORTH JOHN ST · LIVERPOOL 2 · CEN 4226

Also at Newcastle and Weymouth

RING
ELGAR 6757 (4 LINES)
and you're on the right lines for a
FIRST CLASS PLANT HIRE & SALES SERVICE

DIESEL DUMPERS
15, 20 and 30cwt. machines

SAW BENCHES
Portable, Petrol, Diesel or Electric
22", 24", 30" and 33" Circular Saws

PUMPS
Petrol or Diesel
Self-Priming 2" to 6"
Diaphragm 3" and 4"

CONCRETE MIXERS
POWER BAR BENDERS
ROLLER PAN MIXERS
VIBRATING ROLLERS
STONE CRUSHERS
WINCHES · CRANES
FLOOR SANDERS
OVERLOADERS

BLACK & DECKER Electric Tools and Accessories FROM STOCK
For further details write to:

LEWIS & LEWIS LTD
SCHOOL RD., NORTH ACTON, LONDON, N.W.10

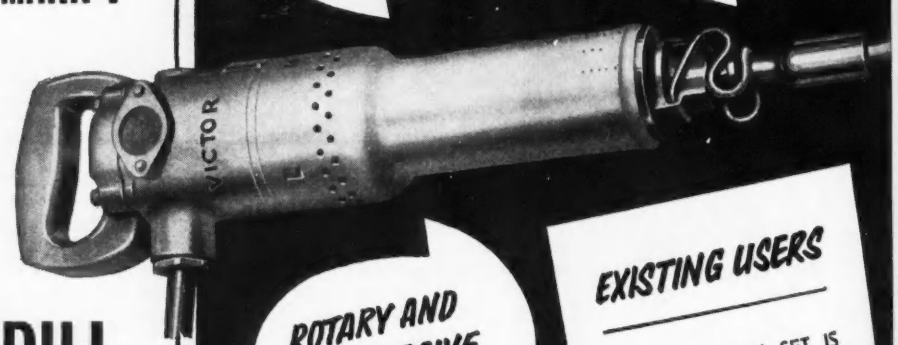
YOU MUST SEE THE NEW, NEW

NEW MARK V
Victor
ELECTRIC HAMMER DRILL

WILL SAVE YOU £ £ £ £ £ £'s
HAS NO EQUAL FOR DRILLING IN BRICK, STONE OR CONCRETE

VASTLY IMPROVED PERFORMANCE

REDUCED MAINTENANCE COSTS



ROTARY AND PERCUSSIVE ACTION

EXISTING USERS

A CONVERSION SET IS AVAILABLE WHICH WILL CONVERT YOUR PRESENT VICTOR INTO THIS NEW OUTSTANDINGLY SUPERIOR MACHINE.

HIRING SCHEME AND H.P. TERMS AVAILABLE

Phone for a Demonstration

VICTOR PRODUCTS (WALLSEND) LTD · WALLSEND-ON-TYNE · ENGLAND · SERVICE DEPOTS THROUGHOUT THE COUNTRY
LONDON POLLARDS 0077 DONCASTER 2515 STOCKPORT 5295 WALLSEND 68331 EDINBURGH 53987 LICHFIELD 2052 NEWPORT 6209

JACK OLDING

ANNOUNCE

THE YALE TRACTOR SHOVEL

REGISTERED TRADE MARK

This tough 105 h.p., 2 yd. capacity tractor shovel has proved its great qualities on sites all over the world.

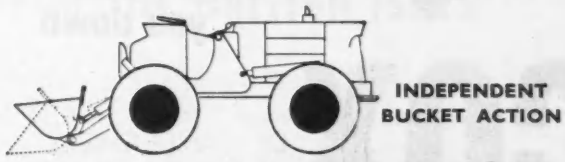
Now manufactured in England, and distributed by Jack Olding and Co. Ltd., The Yale Tractor Shovel offers many outstanding advantages to Contractors, Quarries and all industries concerned with heavy duty loading and stock-piling operations.

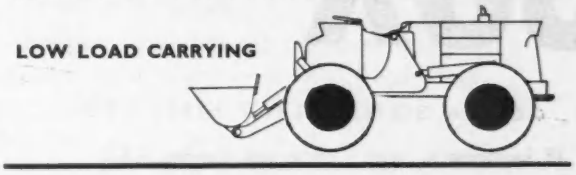
Sole Distributors in the U.K.

JACK OLDING

HATFIELD · HERTS

JACK OLDING & CO. (SCOTLAND) LTD.
COUPAR ANGUS, PERTHSHIRE
DEPOTS: CARDIFF · WOLVERHAMPTON
LIVERPOOL · NEWCASTLE-UPON-TYNE





FAST, EASY OPERATION - 360° VISION
PLANETARY AXLES - TORQMATIC TRANSMISSION

MANUFACTURED BY THE YALE & TOWNE MANUFACTURING COMPANY · MATERIALS HANDLING DIVISION · WEDNESFIELD · STAFFS

EXCAVATORS

TRACTORS

TRAXCAVATORS

LOADING SHOVELS

COMPRESSORS

DUMPERS

MIXERS

PLANT HIRE

When you next require any plant why not contact us and be sure of first-class machines with experienced operators backed by a highly efficient and well-equipped maintenance service

Tel. RODNEY 2215

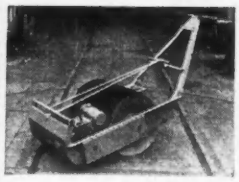
The hire service that never lets you down

COX OF CAMBERWELL

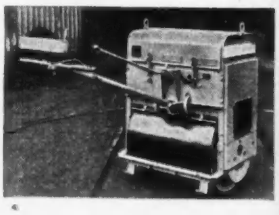
H. COX & SONS (PLANT HIRE) LTD.

33 Southampton Way, Camberwell, London, S.E.5.

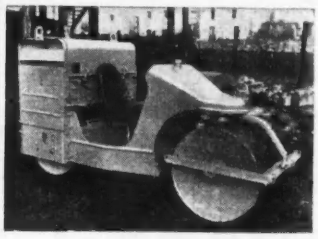
VIBRATING ROLLER HIRE



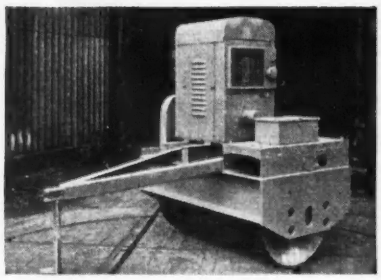
4¼ cwt.
HAND PROPELLED



6½ cwt.
POWER PROPELLED
Hand Guided



16½ cwt. TANDEM



27 cwt. TRAILER

A comprehensive range of tools and equipment to suit all building trades is also available on hire—details on request. Our stock includes road rollers, concrete mixers, compressors, pumps, generators, power floats, rammers, rippers, saw benches, etc.

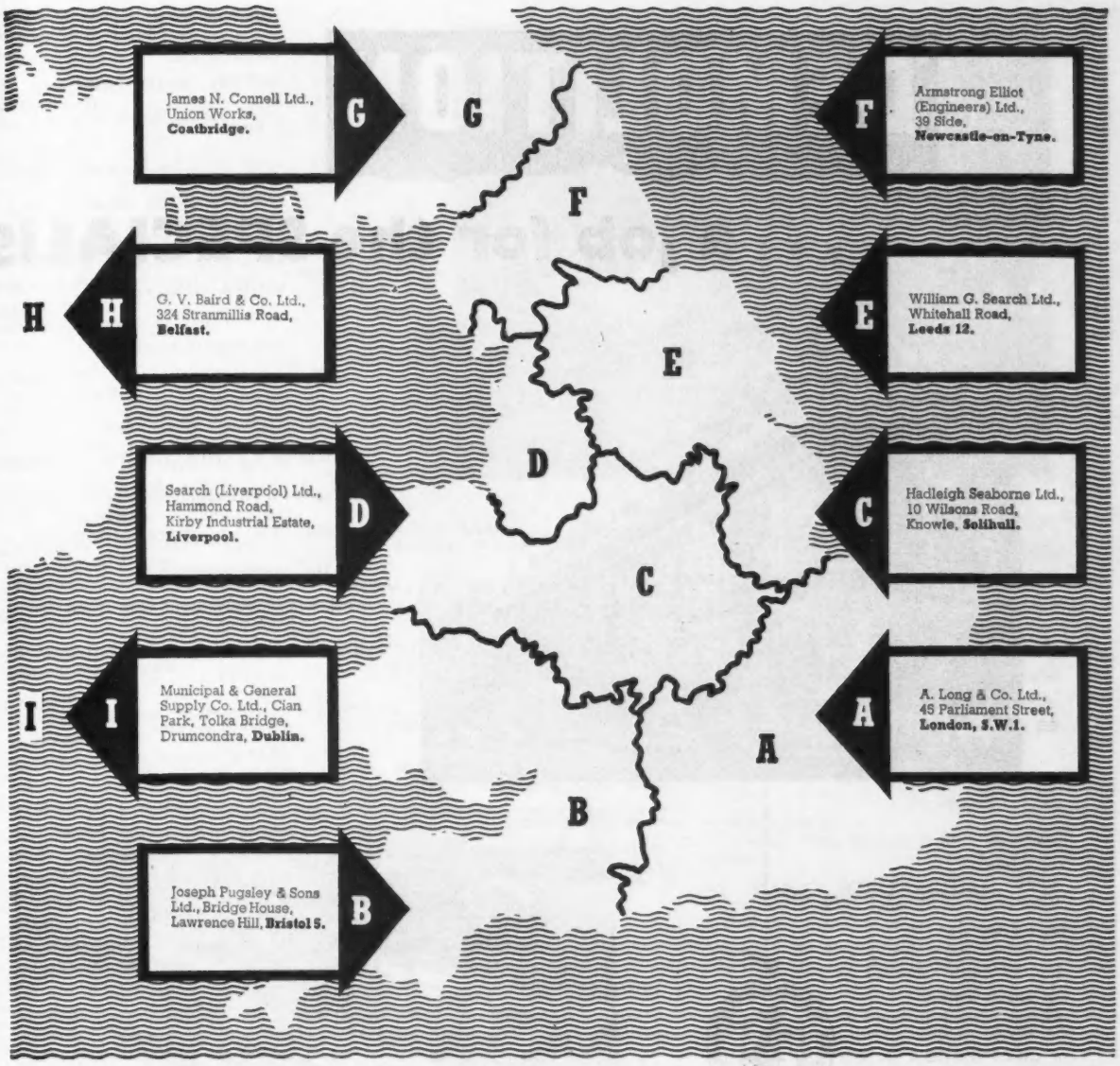
★ ★

E. R. COLE LTD.

COOMBE ROAD, NEASDEN LANE
LONDON N.W. 10
Tel. DOLlis Hill 6606

THURMAN'S MILL
VERNON ST. IPSWICH
Tel. 51180

Also at Arch 14, Kingston Wharf, Shoreham-on-Sea, Sussex. Tel. Shoreham 3947



anywhere . . . everywhere . . .

KUE-KEN CRUSHERS FOR THE BRITISH ISLES

Throughout the British Isles there are agents for the remarkable range of KUE-KEN Crushers, which are unequalled in their efficiency and economy. Write to your local agent for full details.

KUE-KEN jaw plates last 5-10 times longer, because direct pressure-crushing without rubbing-reduces wear.

ARMSTRONG WHITWORTH (Metal Industries) **LIMITED**
Close Works, Gateshead-upon-Tyne 8
Telephone: Gateshead 71261

Subsidiary Company:
JARROW METAL INDUSTRIES LIMITED
Western Road, Jarrow, Co. Durham

DEMOLITION

. . . a job for the SPECIALIST

Demolition is a skilled vocation. To engage the services of unqualified men is inviting trouble. The employment of a member of the N.F.D.C. is an assurance that demolition work will be carried out with speed, economy, efficiency and safety.

Stoll Theatre Demolition

The members listed opposite are prepared to quote for work in any part of the country. For further information apply:

THE SECRETARY, THE NATIONAL FEDERATION OF DEMOLITION CONTRACTORS, 20/21 PRINCES STREET, HANOVER SQUARE, LONDON, W.1. Telephone: MAYfair 4768/9.

ALLISON SAMUEL B. LTD.,
48 Whitevale Street, Glasgow, E.1.
BRIDGETON 3881

ASHTON R. AND SONS (STOKE NEWINGTON) LTD.,
109 Stoke Newington Road, London, N.16.
CLISSOLD 0081-2

BENNETT BROS.,
Spekes Road, Wigmore, Gillingham, Kent.
RAINHAM 81375

BISHOP SYD. & SONS (DEMOLITION) LTD.,
"Acrefare," Sundridge Avenue, Bromley, Kent.
RAVENSBOURNE 1400
56a Mooreland Road, Bromley, Kent.
RAVENSBOURNE 6747

BLAIR ALAN,
28 Southend Avenue, Darlington, Co. Durham.
DARLINGTON 66272

BOWER WALTER,
High Street, Barlborough, Derbyshire.
CLOWNE 112

BRAMWELL H. LTD.,
1141 Aldridge Road, Perry Barr, Birmingham, 22A.
GREAT BARR 3234

BURFORD TAYLOR & CO. LTD.,
Commercial Street, Middlesbrough.
MIDDLESBROUGH 2622 and 2623

CHARLES BRAND (DUNDEE) LTD.,
South Road, Lochee, Dundee.
DUNDEE 68233
Glasgow—295 Edmiston Drive, Glasgow.
GOVAN 3261
Aberdeen—35 Fraser Place, Aberdeen.
ABERDEEN 21441

CHARLES BRAND OF DUNDEE,
Newtyle, By Dundee, Angus.
SCONE 535

CHILDS JAMES,
Corby Road, Grimesthorpe, Sheffield, 4.
SHEFFIELD 387151/2

CLOKE GEO. E. LTD.,
"Elmsted," Neasden Lane, London, N.W.10.
GLADSTONE 1163 and 4296

COLES DEMOLITION & EXCAVATION LTD.,
174 Twickenham Road, Isleworth, Middx.
HOUNSLOW 3545 and 2111

CONNELL & FINNIGAN, LTD.,
44 Molyneux Street, Chorlton-on-Medlock, Manchester, 13.
ARDWICK 2523/4/5

CONTRACTORS (MANCHESTER) LTD.,
Greg Street, Reddish, Stockport.
STOCKPORT 4206-9

CUNNINGHAM M. & SON LTD.,
30 Brighton Road, Birmingham, 12.
BIRMINGHAM SOUTH 0654

DEMOLITION & CONSTRUCTION CO. LTD.,
3 St. James's Square, London, S.W.1.
TRAFALGAR 7833
Newcastle Area Office: 38-39 Exchange Buildings, Queens Street, Newcastle on Tyne, 1.
NEWCASTLE 2-9068
Liverpool Area Office: 34 Moorfields, Liverpool, 2.
CENTRAL 8319

DISMANTLING & ENGINEERING (MIDLANDS) LTD.,
Narrow Lane, Blackheath, Birmingham.
BLACKHEATH 1821—5 lines

DYGGOR CONTRACTORS LTD.,
Station Road, Ilkeston, Derbyshire.
ILKESTON 1143/4177/8/9

FLINTHAM B. LTD.,
Head Office: 24 Neasden Lane, Willesden, N.W.10.
WILLESDEN 6972
Plant Depot: 6 Neasden Lane, Willesden, N.W.10.
WILLESDEN 1333

GOODMAN PRICE LTD.,
Lincoln Chambers, Portsmouth Street, London, W.C.2.
HOLBORN 5093-4-5

GROOM W. (TRANSPORT) LTD.,
102 Ravenhurst Street, Camp Hill, Birmingham, 12.
VICTORIA 0943 and 3123

HARDWICK F. LTD.,
Brunel Buildings, Armley Road, Leeds, 12.
LEEDS 23487

HARVEY C. P. LTD.,
Aberavon Yard, Port Talbot, Glam.
PORT TALBOT 3581 (after hours 2326)

HIGHFIELD DEMOLITION CO LTD.,
45 Friern Barnet Road, New Southgate, N.11.
ENTERPRISE 7963

HUNTER J. & SONS,
40-44 Duff Street, Edinburgh.
EDINBURGH 63078 and 64376

J. & A. DEMOLITION CO. LTD.,
Regents Corner, Wellington Road, Kensal Green, N.W.10.
WEST DRAYTON 2840
LADBROKE 3870 and 2360

JOHN HARRIS (BERMONDSEY) LTD.,
9 and 9a Tranton Road, Bermondsey, S.E.16.
BERMONDSEY 3241

KAYLEY WILLIAM LTD.,
Queen Street Iron Works, Ardwick, Manchester, 12.
ARDWICK 3281 and 3282

KING A. A. & SONS (MORTAR MILLS) LTD.,
North Circular Road, London, N.W.2.
GLADSTONE 6050

LEWISHAM DEMOLITION CONTRACTORS LTD.,
Chalk Pit Avenue Works, St. Paul's Cray, Kent.
ORPINGTON 20326-7-8

LOOMS ALBERT LTD.,
41 King Street, Derby.
DERBY 45557

MAIDEN THOMAS & SON LTD.,
Lime Kiln Lane Works, Ardwick, Manchester, 12.
ARDWICK 2571

MEARS EBENEZER (CONTRACTORS) LTD.,
Cumberland Works, Byfleet, Surrey.
BYFLEET 3866 and 3

MOYES H. J.,
75 Crouch Hall Road, Crouch End, London, N.8.
MOUNTVIEW 3477/9

NORTH LONDON DEMOLITION & EXCAVATION CO. LTD.,
2 Windmill Road, Hampton Hill, Middx.
MOLESEY 3928

PENFOLD W. H. & SONS LTD.,
Belmont Grove, Lewisham, London, S.E.13.
LEE GREEN 2131 and 1924

PINDER S. & SONS LTD.,
57a Church Street, Old Basford, Nottingham.
NOTTINGHAM 76079

POTTERIES DEMOLITION CO. LTD.,
145 Etruria Road, Hanley, Stoke-on-Trent.
STOKE-ON-TRENT 21208

REDDITT BROS.,
Highfield House, Bank End Road, Worsborough Dale, near Barnsley.
BARNSLEY 2541

SCOTT PETER (DEMOLITIONS) LTD.,
107 Spies Lane, Quinton, Birmingham, 32.
WOODGATE 2442

SCUDDER T. E. LTD.,
206-208 Western Avenue, Acton, London, W.3.
ACORN 0656/7973

SHARLAND B.
Prospect Villa, Norton Heath, Blackmore, Essex.
WRITTLE 352

ST. MARY'S (CONTRACTORS), LTD.,
273 Sussex Way, Upper Holloway, London, N.19.
ARCHWAY 1161-3

SPEARS (E. W.) & CO. LTD.,
Head Office: 53 Callander Road, Catford, S.E.6.
HITHER GREEN 3975
Kent Depot: 74 Crayford Road, Crayford
BEXLEY HEATH 7678

TIDY S. M. (PUBLIC WORKS) LTD.,
161 Preston Road, Brighton, Sussex.
BRIGHTON 59161

TREMBLE A.,
Quarry Garage, Benton, Newcastle upon Tyne.
NEWCASTLE 66-5521/2

TURNER, A. W.,
Pentyla Works, Pennant Street, Ebbw Vale, Mon.
EBBW VALE 2120

WALKER M. C. & SONS (WESTHOUGHTON) LTD.,
Wigan Road, Westhoughton.
WESTHOUGHTON 3147

WATTS J. & SONS (CONTRACTORS) LTD.,
Porchester Road, Thorneywood, Nottingham.
NOTTINGHAM 55731—4 lines
BELPER 418

WEBSTER H. S.,
Phoenix Works, Tram Street, Platt Bridge, Wigan.
WIGAN 66176

WILLIAMS C. & SONS LTD.,
Victoria Wharf, 337 Lichfield Road, Birmingham, 6.
EAST 1191

WILLMENT BROS., LTD.,
462 London Road, Isleworth, Middx.
ISLEWORTH 4311

a job for a DEMOLITION CONTRACTOR
THE NATIONAL FEDERATION OF DEMOLITION CONTRACTORS 1941 REGURGAN

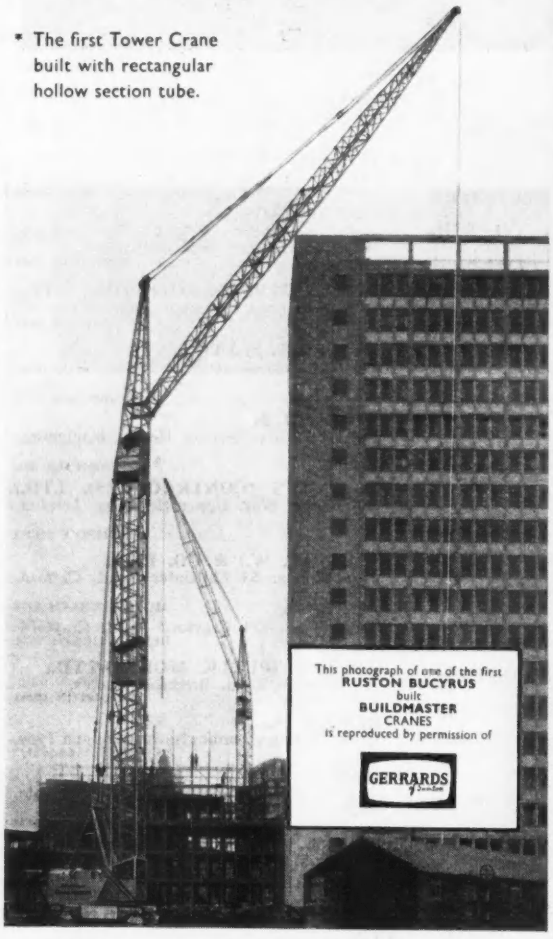
Buildmaster Cranes

—Still ahead

British built by RUSTON-BUCYRUS

THE CRANE OF ADVANCED DESIGN ★

* The first Tower Crane built with rectangular hollow section tube.



Buildmaster Tower Cranes are being batch produced in the RUSTON-BUCYRUS works at Lincoln for delivery in the spring of 1960

DEMAND IS ALREADY HEAVY - ORDER NOW TO MINIMISE DELAY

ENQUIRIES TO :-

ABELSON

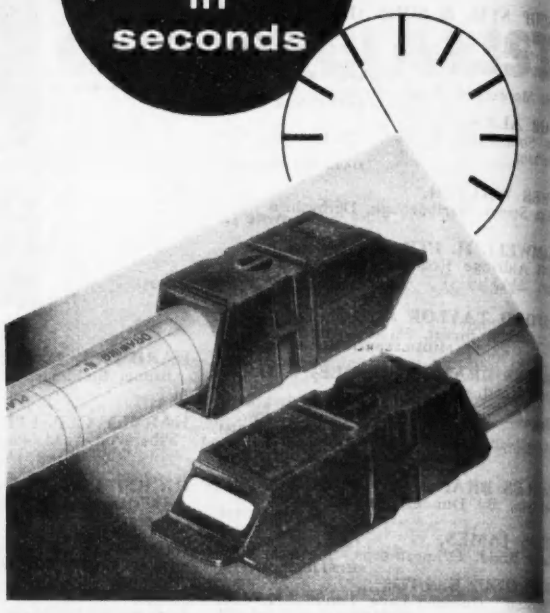
& CO. (ENGINEERS) LTD.

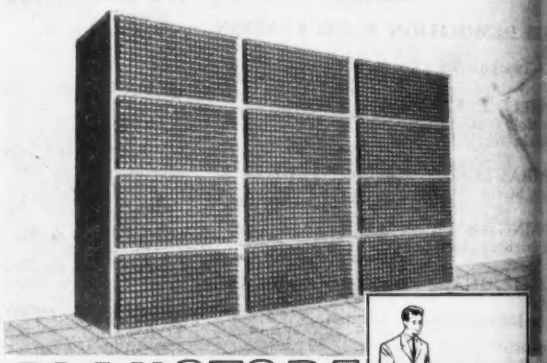
Tel: SHEldon 2424 (10 lines) grams: Abelson, Birmingham

SHELDON · BIRMINGHAM 26

London Office: 60/62 Clapham Rd. London, S.W.9. Tel. RELiance 7081 | Manchester Office: 100 Oxford Rd Manchester. Tel. ARDwick 1328

you will find or file any drawing in seconds





PLANSTORE

The only drawing storage system of immediate accessibility and with simple location reference for drawings in use. It is basically a sheet metal unit honeycombed in square sections; drawings are rolled, one end inserted into a plastic cap and the other end slid into a honeycomb cell.

There you have it . . a system that's really miserly about the space it takes, simply efficient and unit designed for scaling to any requirement. If you would like more details or to discuss PLANSTORE, write or 'phone Dept. C.J.5.

THE RANDALL 1851 ORGANISATION

specialists in sheet metal

JAMES H. RANDALL & SONS LIMITED

Paddington Green Works, London W2
Ambassador 1661

MOBILE AIR FROM 'BRISTOL'

THE TD 120 TRACTOR MOUNTED DUPLEX COMPRESSOR

with 5 exclusive features

- Greater output
- Maximum ground clearance
- Ease of belt adjustment
- Tractor forward of rear axle available for mounting other equipment
- Towing strain taken by Tractor chassis

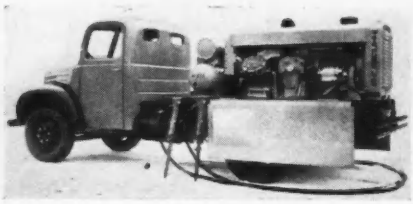
BRISTOL

COOLER AIR IS CHEAPER AIR

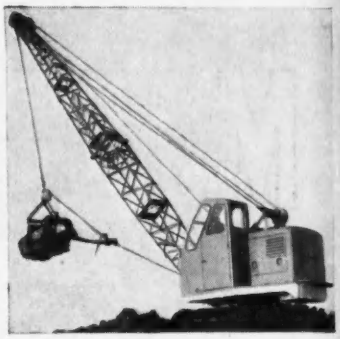
This new Fordson Tractor-mounted 'BRISTOL' Compressor is designed for rough ground bringing compressed air power to otherwise inaccessible places. The compact two-tool compressor has an output of 120 c.f.m. and all the advantages of the 'BRISTOL' Duplex design. Normal ground clearance of the tractor is maintained by high level mounting of the compressor independent of the rear axle. The front of the tractor is left clear for the attachment of such equipment as loading shovels, etc. The towing eye is fitted to the chassis so that no strain is placed on the compressor unit.

WRITE NOW FOR DETAILED SPECIFICATION AND PRICES.

BRISTOL PNEUMATIC TOOLS LTD · CAUSEWAY WORKS · FISHPONDS · BRISTOL · Tel: Bristol 65-



PAH



FOR HIRE

BTD6 DROTT SKID SHOVELS

with "4 in 1" Bucket

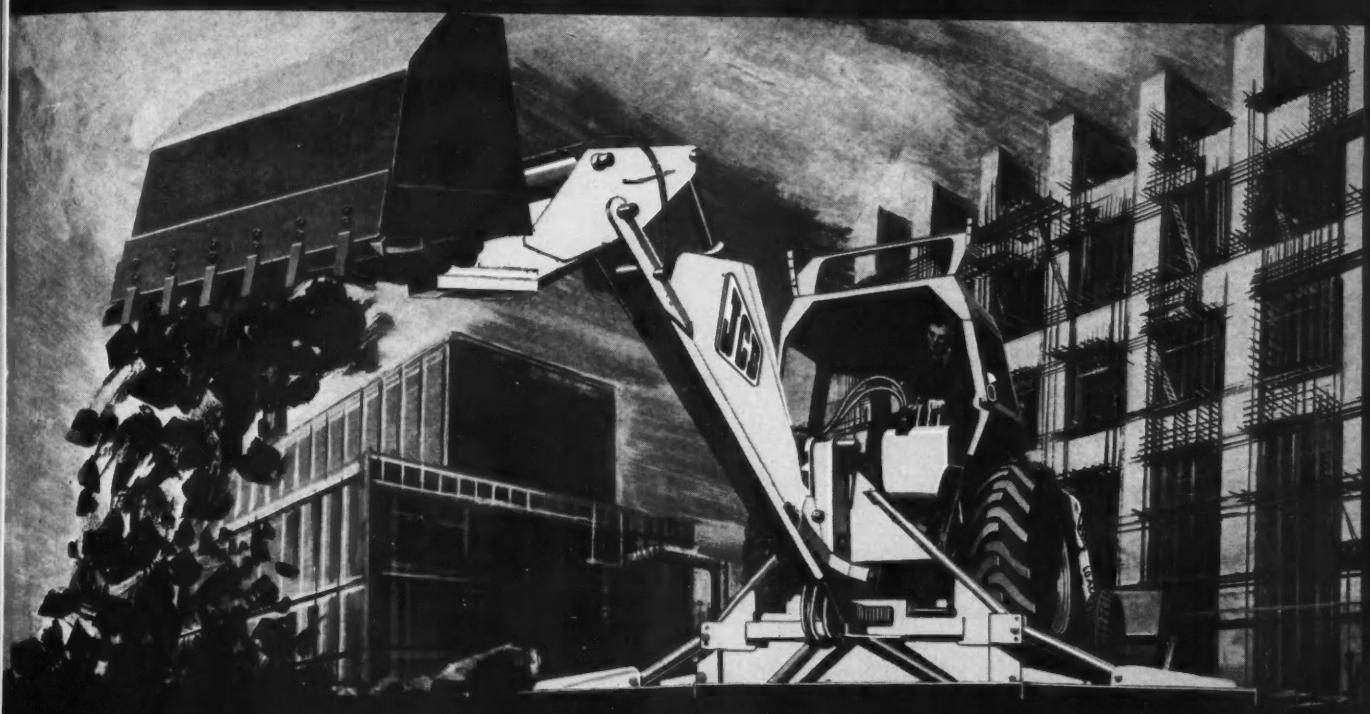
DINKUM DIGGER MAJORS available with Grab
PRIESTMAN CUB V EXCAVATORS
MOBILE and PORTABLE COMPRESSORS
VIBRATING ROLLERS
DIAPHRAGM PUMPS

Service and Agents for ROB ROY Dumpers and Mixers

ACWORTH
PLANT HIRE

207 HIGH STREET,
WALTHAM CROSS,
HERTS.
Tel: WALTHAM CROSS 26211/6

FOR BIG JOBS



AND SMALL JOBS

JCB

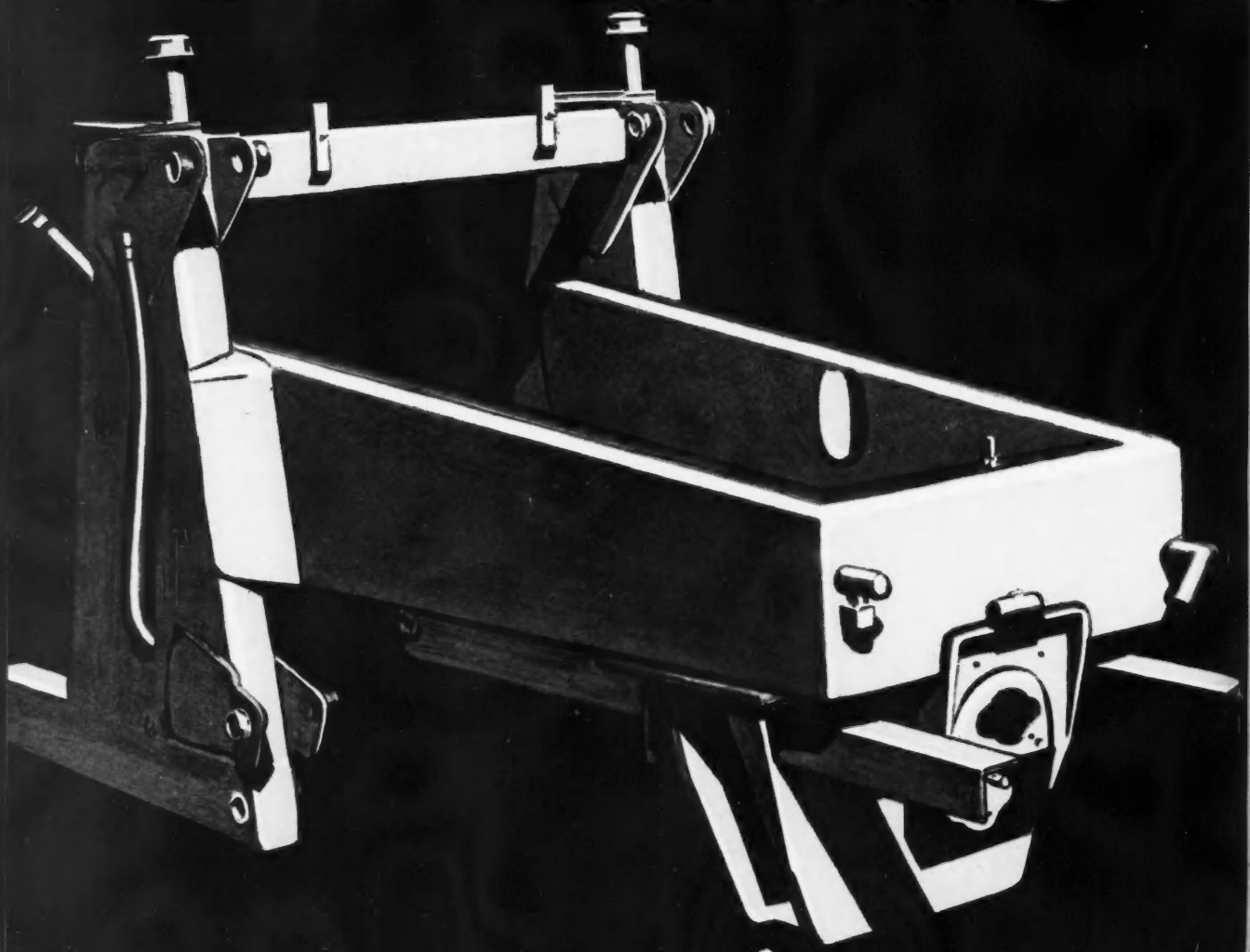
HYDRA-DIGGA/LOADALL 65

B 24

TOUGH and

VERSATILE...
HYDRA-DIGGA/LOADALL 65
J. C. BAMFORD (EXCAVATORS) LTD LAKESIDE · ROCESTER · STAFFS · C371

MASSIVE CHASSIS



HYDRA-DIGGA / LOADALL 65

JCB

ROCESTER · STAFFS · ☎ 371

JCB

To hire a

HYDRA-DIGGA/LOADALL 65

contact any of the following:-

20th CENTURY EQUIPMENT COMPANY (LONDON) LTD.
Phone: Cunningham 0291

GRAVESEND PLANT HIRE LTD.
115 DOVER ROAD
NORTHFLEET, KENT
Phone: Gravesend 3574 & 6002

WARRINER (BUILDERS) LTD.
149 NORTH STREET
ROMFORD, ESSEX
Phone: Romford 45851

PLANT HIRE (GROVE) LTD.
6-7 CHURCH STREET
WANTAGE, BERKS.
Phone: Wantage 438

K. WAGER & COMPANY LTD.
PLANT HIRE
RUSH GREEN, HERTFORD
Phone: Hertford 2899 & Ware 661

BARRIE A. HILL & CO.
PLANT HIRE, 'PARKLANDS'
FOREST GREEN, DORKING, SURREY
Phone: Forest Green 219

DOUGLAS-HAMILTON (CONTRS) LTD.
NORTH FARM ROAD
TUNBRIDGE WELLS, KENT
Phone: Southborough 1538

W. BIRD, PLANT HIRE
NEW BROAD VIEW FARM
BEDFONT RD., STANWELL, MIDDX.
Phone: Feltham 2364 & 3572

E. R. S. FOSTER, CONTRACTORS
58 CROWN HILL,
RAYLEIGH, ESSEX
Phone: Rayleigh 1211 & 1333

PARDIX PLANT ENGINEERS LTD.
(ALL CONTRACTORS' PLANT)
Phone: Waltham Cross 23496 & 24913

R. A. WOOFF (PLANT HIRE) LTD.
Phone: Wokingham 413 or 1245

HAILSHAM PLANT HIRE LTD.
(WALTER SMITH), MARKET STREET
HAILSHAM, SUSSEX
Phone: Hailsham 265, Eastbourne 5822

MERCANTILE MACHINERY
(PLANT) LTD.
39 HIGHFIELD ROAD, DARTFORD
Phone: Dartford 3993

NORMAN HILL, PLANT HIRE
174 TWICKENHAM ROAD
ISLEWORTH, MIDDX.
Phone: Isleworth 8981

G. R. NIXEY LIMITED
WHEATLEY, OXFORDSHIRE
Phone: Wheatley 386

ALDERMAN & SONS LTD.
61 HIGH STREET, WHITCHURCH
NR. AYLESBURY, BUCKS.
Phone: Whitchurch 288

GEORGE FIELD, PLANT HIRE
EXCAVATION & DEMOLITION
CONTRACTORS
CHADWICK ROAD, LONDON, S.E.15
Phone: 7570, New X 6236

HEAVERS PLANT HIRE
(CHICHESTER) LTD.
Phone: Chichester 2929
Ashford, Middx. 3070

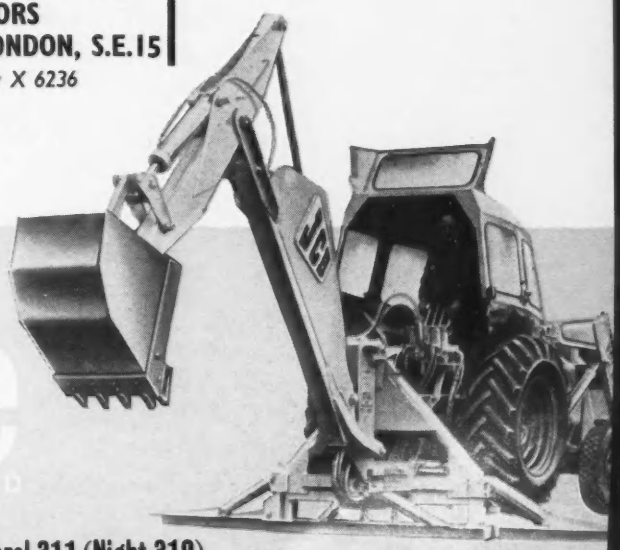
SPENCER KING LTD.
LAMBERHURST FARM, DARGATE
FAVERSHAM, KENT
Phone: Boughton 335

COOMBESIDE CONSTRUCTION
CO. LTD.
38 SHEEP LANE, LONDON, E.8
Phone: Clissold 8370/8866

A. J. PHILLIPS LIMITED
PLANT HIRERS, LONDON, N.W.6
Phone: Maida Vale 3406/2055/4807

T. H. ROBERTS LIMITED
EARTH MOVING CONTRACTORS
OUTWOOD, NR. REDHILL, SURREY
Phone: Smallfield 118 & 073

BARKING DEVELOPMENTS CO. LTD.
HIGHBRIDGE ROAD
BARKING, ESSEX
Phone: Rippleway 2408



Issued by

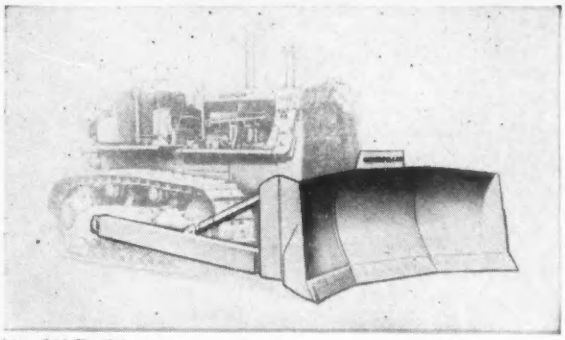
Ernest Doe
AND SONS LTD

ULTING·MALDON·ESSEX **Tel: Hatfield Peverel 311 (Night 319)**

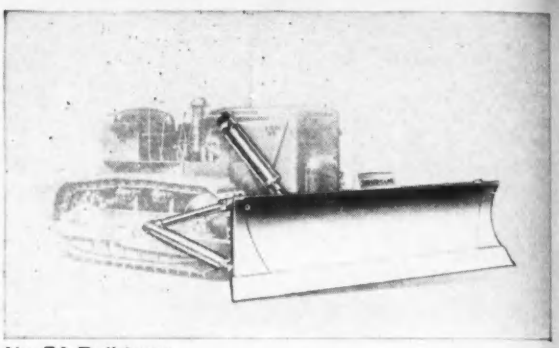
Sole Distributors in :- NORFOLK, SUFFOLK, HUNTINGDONSHIRE, CAMBRIDGESHIRE, BEDFORDSHIRE HERTFORDSHIRE, ESSEX, MIDDLESEX, LONDON, SURREY, E. SUSSEX. KENT

How much CATERPILLAR equipment is now manufactured in Britain?

More than you may realise



No. 8U Bulldozer



No. 7A Bulldozer

From the most comprehensive range of earthmoving equipment available anywhere in the world, Caterpillar now manufactures in Great Britain the major items listed below. Without exception they comply with Caterpillar world standards of quality and performance.

D8 TRACTOR SERIES H

Direct Drive or Torque Converter (235 h.p.)

Direct Drive	6 forward 6 reverse	46872 lb.	*Length* 17′ 0¾″ *Height* 7′ 10″
Torque Converter	3 forward 3 reverse	47032 lb.	*Width* 9′ 1 3/16″

No. 442 SCRAPER (for No. 619 Tractor)

Heaped Capacity	18 cu. yds.	*Length* 36′ 7½″ *(incl. Tractor)*
Width of cut	9′ 4″	*Height* 9′ 8″
Weight	47,150 lb. *(incl. Tractor)*	*Width* 10′ 10″

No. 435 SCRAPER (for D8 or D7 Tractor)

Heaped Capacity	19 cu. yds.	*Length* 33′ 4″
Width of cut	9′ 4″	*Height* 9′ 10½″
Weight	25,400 lb.	*Width* 10′ 9½″

No. 470 SCRAPER (for No. DW21 Tractor)

Heaped Capacity	27 cu. yds.	*Length* 41′ 10½″ *(incl. Tractor)*
Width of cut	10′ 4″	*Height* 11′ 5″
Weight	59,980 lb. *(incl. Tractor)*	*Width* 11′ 9″

No. 456 SCRAPER (for No. DW20 Tractor)

Heaped Capacity	27 cu. yds.	*Length* 43′ 10″ *(incl. Tractor)*
Width of cut	10′ 4″	*Height* 11′ 3½″
Weight	59,965 lb. *(incl. Tractor)*	*Width* 11′ 9″

No. 463 SCRAPER (for D9 or D8 Tractor)

Heaped Capacity	28 cu. yds.	*Length* 38′
Width of cut	10′ 4″	*Height* 11′ 1½″
Weight	34,800 lb.	*Width* 11′ 9″

Nos. 9A, 9S BULLDOZERS
cable or hydraulically controlled

	9A	9S
Length	16′ 0¾″	14′ 1¼″
Height	4′ 2¾″	5′ 1⅛″

Operated by Nos. 29 and 30 Cable Controls or No. 184 Hydraulic Control.

Nos. 8A, 8S & 8U BULLDOZERS
cable or hydraulically controlled

	8A	8S	8U
Length	15′ 2″	12′ 9″	13′ 5″
Height	3′ 7⅝″	4′ 4⅜″	4′ 4⅜″

Operated by Nos. 29 and 30 Cable Controls or No. 176 Hydraulic Control.

Nos. 7A, 7S BULLDOZERS
cable or hydraulically controlled

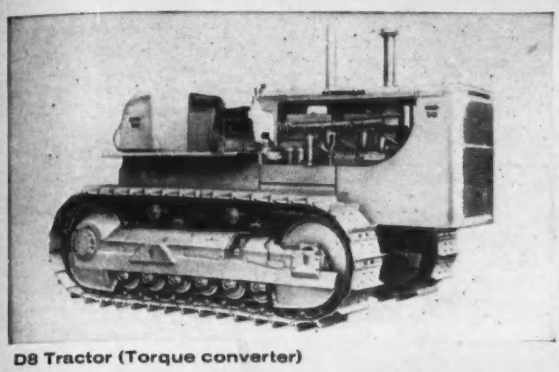
	7A	7S
Height	3′ 2¾″	3′ 9½″
Length	12′ 9⅛″	10′ 4¼″

Operated by Nos. 24 or 25 Cable Controls or No. 46 Hydraulic Control.

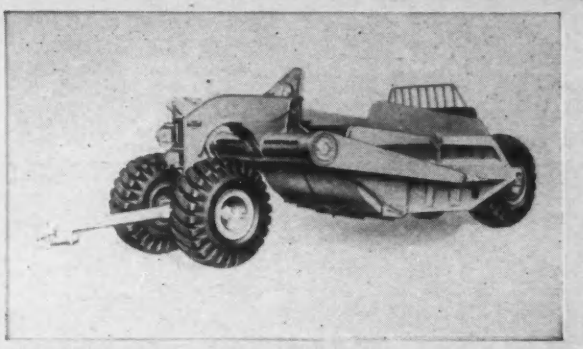
Nos. 6A, 6S BULLDOZERS
cable or hydraulically controlled

	6A(60″)	6A(74″)	6S(74″)
Height	2′ 9¼″	2′ 9¼″	3′ 2″
Length	10′ 4″	11′ 10″	9′ 6½″

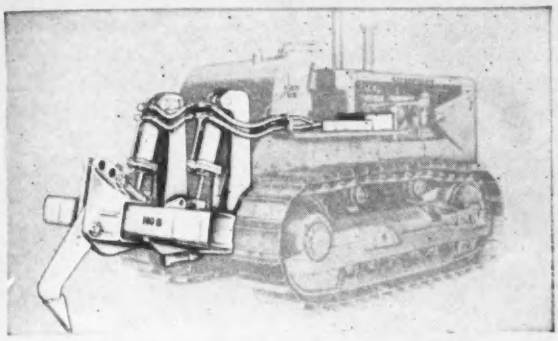
Operated by Nos. 24 and 25 Cable Controls or Nos. 143 and 165 Hydraulic Controls.



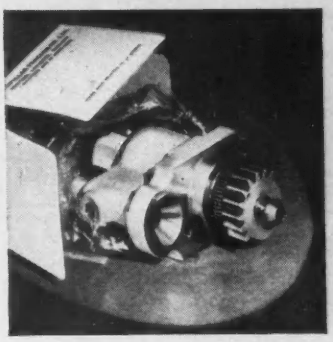
D8 Tractor (Torque converter)



No. 463 Scraper



No. 8 Ripper



PARTS

Caterpillar's Leicester Plant holds large stocks of British and American parts for distribution to U.K. and overseas dealers. British-made parts are fully interchangeable with equivalent parts manufactured throughout Caterpillar's world-wide operations. No matter the Caterpillar machine model or its manufacturing source, it can be serviced easily with genuine Caterpillar parts.

No. 4A BULLDOZER
hydraulically controlled

	4A(60")	4A(44")
Height	2′ 4½″	2′ 3½″
Length	10′ 2⅛″	8′ 6⅝″

Operated by No. 44 Hydraulic Control

Nos. 977A, 955A & 933A BULLDOZERS
hydraulically controlled

	No. 977A	No. 955A	No. 933A
Height	2′ 9¼″	2′ 3½″	1′ 11¾″
Length	11′ 10″	10′ 2¼″	8′ 1¼″

Operated by Nos. 977, 955 and 933 Traxcavators

No. 176 HYDRAULIC CONTROL

Weight	624 lb.
R.P.M.	1,200
Mounting	Front

Operated by D8 Tractor Series H

No. 8 RIPPER (for use with D8 Tractor)

Weight 6,675 lb.
Max. Depth of penetration—26″
Operated by No. 176 Hydraulic Control
One tooth standard. Second and third teeth available.

SWING-AROUND TOOL BAR
(for use with D4 Tractor)

Caterpillar's Swing-Around Tool Bar can *carry* big equipment—instead of *dragging* it—and can save substantially on equipment costs by being readily adaptable, combining several operations into one. Your Caterpillar Dealer will gladly show you equipment specifically designed for use with the Caterpillar Tool Bar—Listers, Chisels, Subsoilers, Ditchers, Disc-Ridgers, Ploughs and Loader.

CATERPILLAR

Caterpillar, Cat and Traxcavator are Registered Trademarks of Caterpillar Tractor Co.

Backed by a World-wide Dealer Organisation

CATERPILLAR TRACTOR CO. LTD.

Registered User of Trademarks Caterpillar, Cat and Traxcavator

GLASGOW
LEICESTER
NEWCASTLE
LONDON

TRACTORS · EARTHMOVING EQUIP[illegible] · PARTS

CATERPILLAR IN ACTION...

THE NEW CATERPILLAR D7 SERIES D TRACTOR

Increased Engine Power—with the new Turbocharged D339 Engine with horsepower increased to 140. Turbocharger driven entirely by exhaust gases, packs more air into engine according to engine load, not speed; increased air supply allows engine to convert more fuel into higher, more efficient horsepower.

Improved Lugging Characteristics—show in the tractor's ability to increase drawbar pull when slowed down by a load—increased by 80 per cent over previous model, giving extra drive to meet the challenge of the toughest jobs.

Pressure Lubricated Power Train—prolongs bearing and gear life for trouble-free operation. New power train components include a major increase in strength to the final drive gears, giving extra long life to these vital working parts. Bearings pressure lubricated—oil sprayed directly on gears—lubrication system includes full-flow filtration for cleaner oil.

Lifetime Lubricated Rollers—eliminate on-the-job lubrication of track rollers, carrier rollers and idlers. Protected by exclusive floating-ring seals, no lubrication required until rebuilding. Thicker, stronger roller shafts increase track roller life—wider retained bushing-type bearings to distribute load better than ever before.

CATERPILLAR

THE GREATEST NAME IN EARTHMOVING

—find out for yourself by a practical demonstration

Caterpillar and Cat are registered Trade Marks of Caterpillar Tractor Co.

MISCELLANEOUS ITEMS, BUILDINGS, PROTECTIVE CLOTHING, FENCING, TARPAULINS, ETC.

NOTICE.—Orders for advertising are accepted on the understanding that the Editor may make any alterations in an advertisement to ensure its conformity with the style and standards of "The Contract Journal." The Proprietors reserve the right to suspend, cancel or refuse an advertisement without stating any reason. No undertaking is given that an advertisement will be published on any specified date. Communications which are not actual replies to the advertisement will not be forwarded. The Proprietors reserve the right to open communications and to withhold those not in accordance with this rule.

FOR SALE.
SECTIONAL TIMBER BUILDING, 86ft. long x 29ft. wide, 10ft. 6in. to the eaves, timber floor, timber roof.
SECTIONAL TIMBER BUILDING, 72ft. long x 39ft. wide, 9ft. to the eaves, asbestos roof, matchboard lined.
May be inspected by appointment where standing.
F. JAMES AND SONS,
Newport Pagnell (18 and 19), Bucks.

FOR SALE, Steel and Alloy SCAFFOLD TUBE and BLADE-END PUTLOGS, DOUBLE COUPLERS, JOINT PINS, SWIVEL COUPLERS, PUTLOG CLIPS also available in quantities.
PLANT AND BUILDING EQUIPMENT, LTD.,
Chatfield Works, 1 Chatfield Road, Battersea, London, S.W.11. Telephone: BATtersea 9213.

C. EVANS AND SONS, LTD., have available from stock over 250,000 SCAFFOLD COUPLERS, including Burton Little Giants, Norstel, Big Ben, SGB, Boulton, M.A.C., Mills and No Bolts. Send for our detailed lists.
Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

GREASE GUNS, heavy duty, 70% off list price, Tecalemit, 29½oz. flexible tube, hexagon head, hand lever operated. Brand new condition, 60/- each, six at 55/-, 20 at 48/- Hydraulic head, 10/- extra.
CROMWELL CO., Newport, Mon. 59045

WANTED, AIRCRAFT HANGERS, all types. Also ELEVATED WATER TANKS. Top prices paid.—Details to: A. G. CAMPBELL (ARCAM), LTD., Lower Broadheath, Worcester. Tel.: Hallow 361.

SITE GOODS.—RAILWAY SLEEPERS, sound, second-hand: 1-50, 11/9 each; 51-100, 11/3 each; 100 and over, 10/9 each. Collected ex yard, 10/9.
Sommerfeld TRACK, rolls 25yd. long x 10ft. wide, M.S. rods 9in. centres, £12 10s. per roll.
TARPAULINS, second-hand, overhauled, ropes and eyelets: 18ft. x 12ft., £6; 18ft. x 15ft., £6 15s.; 24ft. x 15ft., £10.
A. F. SIMPSON, LTD.,
68/70 Penge Road, South Norwood, S.E.25.
Telephone: Sydenham 3131 (3 lines).

FOR SALE, SCAFFOLD BOARDS, NEW, cornered and bound, at £112 per standard, delivered 150 miles London. S/H BOARDS, ends cornered and rebound, first-class quality, lengths mainly 12ft., 14ft. and 15ft., £80 per standard, delivered 150 miles London.
Contact C EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

'PHONE STAINES 55298 for SALE or HIRE:
AIR RECEIVERS (70) available, 4ft. x 1ft. 2in. up to 30ft. x 7ft.
TANKS, Cyl., Rec. and Sec., up to 12,000 gallons. Stock lists available.
HARRY H. GARDAM AND CO., LTD.,
100 Church Street, Staines.

PREFABRICATED STEEL - FRAMED BUILDINGS from stock: 30ft., 40ft., 50ft., 60ft., 75ft., 100ft. clear spans, and lengths in increments of 12ft. 6in. Sheeting may be either asbestos or galvanised.—Write for Catalogue Ref. K.104, from THE LILLESHALL CO., LTD., Oakengates. Telephone: Oakengates 120.

RAILWAY SLEEPERS, Second-hand, available in all grades; also BAULKS and SECOND-HAND TIMBER. Delivered by motor anywhere.—Apply F. PEART AND CO., LTD., Park Road, West Hartlepool. Telephone: Hartlepool 2141.

WANTED to PURCHASE, large quantity of BUILDERS' SCAFFOLDING BOARDS and FITTINGS from clients who are either dissolving partnership or going abroad.
Write Box M.1028, "The Contract Journal."

FOR SALE, Corrugated Steel SHEETS, new and S/H. Most sizes and gauges in stock.
Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

FOR SALE, surplus used BUILDING MATERIALS and FITTINGS. List on application to the ENGINEER AND SURVEYOR, Council Offices, Rudolph Road, Bushey, Herts. The items may be inspected at the Council Depot, Bournehall Lane, Bushey, on Saturday mornings only, 8 to 11 a.m.

FOR temporary roadways and compound fences, C. EVANS AND SONS, LTD., offer Sommerfeld TRACK, 500 rolls, each 25yd. x 10ft., interlaced at 9in. centres with ⅜in. M.S. rod; and Pierced Steel TRACK (airfield strip), standard 10ft. x 16in. x ⅛in. First-class, re-layable.
Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

WANTED, TRENCH SHEETING, PROPS, etc., and all types of NON-MECHANICAL BUILDERS' PLANT.
PLANT AND BUILDING EQUIPMENT, LTD.,
Chatfield Works, 1 Chatfield Road, Battersea, London, S.W.11. Telephone: BATtersea 9213.

FOR SALE, NISSEN HUTS, Galvanised Sheeted, 36ft. long x 16ft. wide, at £75 each.
DITTO, Black Iron Sheeted, at £65 each.
F. JAMES AND SONS, Newport Pagnell. Tel. 18 and 19.

STEEL SECTIONS and PLATE, ETC. Cut to your specification. New and second-hand material available.—TEMPLE MILLS (STEEL), LTD., Temple Mills Lane, Stratford, E.15. Maryland 2660/7734.

WANTED, Braithwaite SECTIONAL TANKS or LOOSE PLATES, 4ft. square, ⅜in. to 5/16in. thick.—FRED WATKINS (ENGINEERING), LTD., Coleford, Glos.

SLEEPERS.
100 tons Crossing Sleepers, from 9ft. to 13ft. lengths.
J. A. K. SHEPLEY AND CO., LTD.,
6 Meadow Street, Manchester, 1. Tel.: ARDwick 2256.

FOR SALE, SCAFFOLD MATERIALS. For keen prices, service and quality.
Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

FOR SALE, 100 tons S1 Re-usable COMMON RAILWAY CHAIRS. Cheap for imm. delivery.—Write Box M.1100, "The Contract Journal."

PODMORE WORKS

SITE HUTS
FROM STOCK
769-775, GARRATT LANE, S.W.17
PHONE - WIMBLEDON 7622

FOR SALE
Second-hand PIERCED STEEL PLANKING (airstrip mats) in 5ft. and 10ft. lengths. For site and temporary roadways. Competitive prices.
COX AND DANKS, LTD.,
Park Royal Road, London, N.W.10.
Telephone: Elgar 5811.

NEW SEAMLESS PIPING
Available ex stock—very attractive price.

2,500ft.	6⅝in. o.d. x 5-gauge,	long randoms
1,500ft.	5½in. o.d. x 5-gauge,	long randoms.
500ft.	8⅝in. o.d. x 5-gauge,	flanged ends.
1,000ft.	10¾in. o.d. x ¼in.,	long randoms.

DOWNINGS (BARNSLEY), LTD.,
Doncaster Road, Barnsley, Yorkshire.
Telephone: Barnsley 3603/4/5.

REINFORCED
RUBBER HOSE
FOR AIR COMPRESSORS
SUCTION & DELIVERY, ETC.
THE CENTRAL MANUFACTURING & TRADING CO. (DUDLEY) LTD.
OLD HILL STAFFS
Phone: CRADLEY HEATH 69181 (5 lines)

RUBBISH TIP
Now open at **IVY MILL LANE, GODSTONE. Phone God. 572**

MOBILE SITE OFFICES
MOBILE DORMITORIES
MOBILE WASH-HOUSES
Everything MADE MOBILE by:
LANDSMAN'S SERVICES · BUCKDEN · HUNTS.

DEMOLITION
HARDCORE,
CLINKER & ASHES
SAND, BALLAST, ETC.
GEO. E. CLOKE, LTD.
In Association with
HUDSONS DEMOLITION BRANCH
"Elmstead", Neasden Lane, N.W.10
Phone: GLADSTONE 4296-7 & 1163-4

RED SHALE
DELIVERED OR COLLECTED EX PIT
NUNEATON
G. R. YEOMANS LTD., Oxford Road, Ryton, Coventry. Phone: Tollbar 2376

TARPAULINS
NEW, GREEN, ROT-PROOFED, SEAMS DOUBLE-SEWN WITH BEST LINEN THREAD; REINFORCED BRASS EYELETS, SPLICED ROPES

Size approx.	Weight after proofing: (24oz.) JUTE	(22oz.) FLAX	(18oz.) C. DUCK
12ft. x 9ft. ..	£2 17 0	£3 18 0	£4 4 0
15ft. x 9ft. ..	£3 12 6	£4 17 6	£5 5 0
15ft. x 12ft. ..	£4 15 0	£6 18 0	£7 0 0
18ft. x 12ft. ..	£5 14 0	£7 16 0	£8 8 0
18ft. x 15ft. ..	£7 2 6	£9 15 0	£10 10 0
30ft. x 15ft. ..	£7 18 6	£10 17 6	£11 13 6
24ft. x 18ft. ..	£11 8 0	£15 12 6	£16 16 0
30ft. x 21ft. ..	£16 12 6	£22 15 0	£24 10 0

EX-GOVERNMENT, RECONDITIONED

10ft. x 7ft. ..	£1 5 0	18ft. x 15ft. ..	£5 17 6
10ft. x 10ft. ..	£2 0 0	20ft. x 15ft. ..	£6 10 0
14ft. x 10ft. ..	£3 0 0	20ft. x 18ft. ..	£8 10 0
15ft. x 12ft. ..	£4 10 0	24ft. x 18ft. ..	£10 10 0
20ft. x 10ft. ..	£4 18 6	30ft. x 20ft. ..	£14 0 0
18ft. x 12ft. ..	£5 5 0	30ft. x 30ft. ..	£19 10 0

GENUINE EX-RAILWAYS, RECONDITIONED

10ft. x 7ft. ..	£1 4 0	20ft. x 10ft. ..	£4 15 0
10ft. x 10ft. ..	£1 18 6	20ft. x 14ft. ..	£5 10 0
14ft. x 10ft. ..	£2 15 0	21ft. x 20ft. ..	£9 12 6

All sheets are eyeletted and roped.
Immediate delivery — Carriage paid.
Money refunded if not satisfied.
MORELAND TRADING Co. Ltd. (CJ)
25 St. Pancras Way, London, N.W.1
Telephone: RUSsen 8310 and 2383

SPECIAL OFFER OF LARGE SIZE TUBE
10in. Tube in lengths up to 40ft.
12in. Tube in lengths up to 40ft.
14in. Tube in lengths up to 20ft.
15in. Tube in lengths up to 20ft.
16in. Tube in lengths up to 40ft.
18in. Tube in lengths up to 25ft.
20in. Tube in lengths up to 20ft.
All of these sizes can be supplied plain ends or flanged.
Also in stock a quantity of 24in. Tube, flanged in lengths of approximately 24ft.
Large stocks of smaller size Tube always available
MIDLAND IRON & HARDWARE CO. (Cradley Heath), LTD.,
CRADLEY HEATH, STAFFS
Telegrams: Pipes, Cradley Heath
Telephone: Cradley Heath 66364-5-6

RELAYABLE & ROADWAY SLEEPERS
CROSSING TIMBERS
ALL LENGTHS
Delivery ex stock
JOSEPH STANDISH Ltd
Hunslet, Leeds 9
Tel: 21491

FENCING
SUPPLIED AND ERECTED IN ANY DISTRICT
W. A. SKINNER & CO. LTD.
LONG DITTON, SURREY
Phone: EMBERBROOK 1960-1961

NEW TARPAULINS
EXACT SIZES ONLY
JUTE, 16oz. before green wax proofing: 12' x 9' each 66/-, 15' x 12' each 100/-, 18' x 12' each 118/6, 21' x 15' each 156/6.
FLAX, 16oz. before green chemical proofing: 12' x 9' each 87/6, 15' x 12' each 139/-, 18' x 12' each 156/6, 21' x 15' each 215/-.
COTTON DUCK, 14oz. before green wax proofing: 12' x 9' each 90/6, 15' x 12' each 148/6, 18' x 12' each 174/-, 21' x 15' each 252/6.
BRAND NEW SHEETS, carriage paid England and Wales. Fitted long ropes. Brass eyelets and strengthening patches.
ANY QUANTITY FROM LONDON STOCK
JOHN MACNAMARA & CO. LTD.
Bush Road, Deptford, London, S.E.8 BER 3275-1435

MISCELLANEOUS ITEMS, BUILDINGS, PROTECTIVE CLOTHING, FENCING, TARPAULINS, ETC.

CAST-IRON SPIGOT and SOCKET PIPING, mostly new, standard lengths. Immediate delivery.
16in. bore, 100ft. 9in. bore, 200ft.
15in. bore, 100ft. 8in. bore, 500ft. (Screwed Gland).
12in. bore, 500ft. 6in. bore, 300ft.
10in. bore, 100ft.
CAST-IRON FLANGED, mostly new:
15in. bore, 11 x 12ft. lengths
10in. bore, 300 x 12ft. lengths, Stanton.
8in. bore, 200ft. in 4/9ft. lengths.
6in. bore, 500ft. in 6/9ft. lengths.
4in. bore, 500ft., chiefly 9ft.
Also large selection BENDS, SLUICE VALVES.
Full details on request.
FRED WATKINS (ENGINEERING), LTD., Coleford, Glos.

SOUND SECOND - HAND PLANT. 1,000 No. 1 Acrow PROPS, 39/6 each; 500 No. 2 Acrow PROPS, 45/6 each; 20,000ft. 13/21ft. Steel SCAFFOLDING, 1/3½ ft.; 100,000 shorter lengths, 1/2 ft.; S/H SCAFFOLD BOARDS, 1/3½ ft., all lengths.
A. F. SIMPSON, LTD., 68/70 Penge Road, South Norwood, S.E.25. Telephone: Sydenham 3131 (3 lines).

FOR SALE, Large Quantity of Pressed Steel SECTIONAL TANKS, 4ft. x 4ft. x 4ft., complete with bolted cover and hinged manlid. Supplied dismantled in plates 4ft. x 4ft. x approx. ⅛in. thick. Delivery ex-stock. — THE MIDLAND IRON AND HARDWARE CO. (CRADLEY HEATH), LTD., Cradley Heath, Staffs. Telephone: Cradley Heath 66364-5-6.

WANTED, Braithwaite or similar SECTIONAL WATER TANK, capacity 3,000 gallons, complete with 30ft. steel tower, all in good condition and subject to inspection, delivered Ketton, Rutland. STIRLING, MAYNARD AND PARTNERS, 8 Station Chambers, Peterborough.

WANTED, TRENCH SHEETS; Acrow PROPS, any quantity.—Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: Advance 5691/2/3.

SLEEPERS for access roads and all purposes. TIMBERS for shoring, paling boards and waling. Consult us first.
TILLEYS (WOLVERTON), LTD., Wolverton, Bucks.

LATTICE STEEL ERECTION MASTS (Light and Heavy), 30ft. to 150ft. high, for immediate HIRE. — BELLMAN'S, 21 Hobart House, Grosvenor Place, S.W.1.

WANTED, CORRUGATED STEEL SHEETS, S/H. Any area. Sites cleared. Prompt payment. —J. DUFFY, Bank Street, Clayton, Manchester, 11. Telephone: East 3361.

NEW ROADFORM PINS for SALE. Made to your specification, 1in. or ⅞in. dia.
TEMPLE MILLS (STEEL), LTD., Temple Mills Lane, Stratford, E.15. Tel.: Maryland 2660/7734.

FOR SALE
New Galvanised Corrugated Seconds STEEL SHEETS, 22-gauge and 24-gauge, lengths 6ft., 8ft. and 10ft. Also other miscellaneous sizes. Competitive prices.
COX AND DANKS, LTD., Park Royal Road, London, N.W.10. Telephone: Elgar 5811.

TARPAULIN HIRE
JOHN MACNAMARA & CO. LTD.
BUSH ROAD, LONDON, E.E.8
BERMONDSEY 2275 & 1455

WHAT!! ONLY SCRAP PRICES FOR SHORT R.S.Js?
We will pay substantially more than scrap prices for all unusual or standard steel sections, R.S.Js, angles, tees, plate, Frodingham and Larssen piles, pierced planks, etc.—lengths from 2' upwards.
SURPLUS STOCKS (Romsey) LTD. Swiss Road, Waterlooville, Hants.
Tel: Waterlooville 2487 8/9

FOR SALE AND HIRE. 600 FLOOR CENTRES, fully overhauled and ready for work: No. 1 Size, £3 each; No. 2 Size, £3 10s. each; No. 3 Size, £3 17s. 6d. each; No. 4 Size, £4 15s. each. 300 Adjustable Steel SPLITHEADS, overhauled, with folding legs: No. 1, 22/6 each; No. 2, 25/- each; No. 3, 28/6 each; No. 4, 32/6 each. Also available: BEAM CLAMPS, PROPS, COLUMN CLAMPS.
PLANT AND BUILDING EQUIPMENT, LTD., Chatfield Works, 1 Chatfield Road, Battersea, London, S.W.11. Telephone: BATtersea 9213.

WANTED TO PURCHASE. Quantities of CHEQUERED PLATE and STRIP, also heavy STEEL PLATE, ½in. to ½in. thick. Quantities of STEEL PIPE also required, from approx. 1¼in. to 1½in. dia. thin wall, and heavy STEEL PIPE, 4in., 5in., 6in., 7in. and 8in. dia. ¼in. to 1in. wall thickness. Also REAR TWIN BOGIES as dismantled from military tank-carrying vehicles, in small or large quantities, or complete TRAILERS. — HARFORD ENGINEERING CO., LTD., Whiting Road, Norwich.

POLYTHENE SHEETING (British VisQueen).—Protect your work, plant and machinery the modern way:—
500 gauge, clear, 12ft. x 150ft. rolls, at £13 14s. 6d. each. 500 gauge, black, 12ft. x 150ft. rolls, at £15 19s. each. 1,000 gauge, clear, 10ft. x 75ft. rolls, at £11 6s. each. Complete lists and samples from: H. C. HILL, LTD., 68/70 Penge Road, South Norwood, S.E.25. SYD. 3131/4.

DERBYSHIRE LIMESTONE, all grades, dry or tarred up to 200 tons per day or graded smaller sizes available delivered to site.
GEORGE DAVIS (HAULAGE), LTD., 2 Bosworth Road, Nottingham. Telephone 84819.

FOR SALE, 100,000 6¾in. x 1¼in. S.H. BOARDS, in good condition. Also large quantity 9in. x 3in., 7in. x 2½in., 6in. x 2½in., 3in. x 2in., etc. F. GAUNT AND SONS, County Bridge, Dukinfield. Telephone: Ashton-under-Lyne 4162.

FOR SALE, 6,000 RAILWAY SLEEPERS. Guaranteed Grade 5. Suitable for silage, roadways, buildings, bridges, machinery, etc.—Write, 'phone or call: JOHN HILROY AND CO., 290 Shirley Road, Southampton. Telephone 76230.

COMPLETE STEEL FRAMEWORK (second-hand) for storage building, 75ft. x 50ft. x 15ft. to eaves: Roof Trusses, Purlins, Stanchions, Sheeting Rails, etc.—Offers to: E. L. F. DAVEY AND CO., LTD., 306 High Road, Ilford.

FOR SALE, PUTLOGS, Steel and Alloy, 5ft. and 6ft. Large stocks always available. Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

NEW 14ft. DUMPY LEVEL STAFFS for SALE, £9 17s. 6d. each, carr. paid. 5% discount for lots of 10 or more.—BRUNSWICK PLANT (CARDIFF), LTD., Corner Park Garage, Pontyclun, Glam. Tel. 245.

RAILWAY SLEEPERS
10,000 in stock
BEFORE ORDERING RAILWAY MATERIALS OF ANY KIND
WRITE OR TELEPHONE:
E. L. PITT & Co. (Coventry) Ltd.
BRACKLEY TOWN STATION, BRACKLEY, NORTHANTS
Telephone: BRACKLEY 2271/2
Telex: 83159

COVER THAT PLANT
Why waste money by leaving expensive equipment out in all weathers?
SMITH SECTIONS, MAUD'S ELM, CHELTENHAM
Telephone: 56016
can offer s/h steel framed buildings in guaranteed condition, from 800 sq. ft. to 28,000 sq. ft. from £250 delivered.

ELECTRICIANS. — Send for details SHAFTESBURY LIGHTWEIGHT "BANTAM" LADDERS. Top section fitted with patent MOULDED RUBBER BLOCKS, eliminate possibility of scratching or marking walls, fascias and other painted or highly polished surfaces. Also available for immediate delivery: STEPS, PLATFORM STEPS, TRESTLES, TELESCOPIC TRESTLES, POLE and BUILDERS' Type LADDERS, and all sizes of Two and Three Section EXTENSION LADDERS.
SHAFTESBURY LADDERS, LTD. (C.J.), 453 Katherine Road, London, E.7. Grangewood 3363-4.

NEW HUTS AT OLD PRICES.
60ft. x 20ft. ..... £395, with floor.
60ft. x 15ft. ..... £350, with floor.
40ft. x 20ft. ..... £280, with floor.
30ft. x 15ft. ..... £185, with floor.
15ft. x 10ft. ..... £80, with floor.
To save money, compare these prices.
PANEL-LASTIC CONSTRUCTION CO., LTD., Belvedere Works, Railway Terrace, Feltham, Middlesex. Telephone: Feltham 5761.

FOR SALE, EVANS OF BOW offer from stock 2,000 "H" FRAMES, 4ft. 6in., also HALF-FRAMES, 2ft. 3in., and ADJUSTABLE JACKS. All in first-class condition.
Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

CHESTNUT FENCING and POSTS, also WATTLE HURDLES and INTERWOVEN PANELS. Prompt deliveries from works at Croydon and Sevenoaks.—BERNARD COLLINS (WOOD PRODUCTS), LTD., 52 Court Road, London, S.E.25. Telephone: LIVingstone 5089.

STILL the CHEAPEST for STEEL SCAF- FOLDING on HIRE. SINGLE HOUSE £8 10s. Tube ½d., Boards 2d. per ft.; Fittings 1½d.; Putlogs 4d. each. SCAFFOLD for SALE.
CHURCH HILL CONSTRUCTION CO., LTD., Burgess Hill, Sussex. Telephone 3420.

GALVANISED CORRUGATED SHEETS. New sheets in various gauges. Large stocks and competitive prices, delivered anywhere.—Details from: F. PEART AND CO., LTD., Park Road, West Hartlepool. Telephone: Hartlepools 2141.

FOR SALE, 120 tons good re-usable PIERCED STEEL PLANKING, in 10ft. lengths.
JOHN LEE AND SON (GRANTHAM), LTD., Grantham, Lincs. Telephone: Grantham 1721.

FOR SALE, 400,000ft. Steel SCAFFOLD TUBE, cut lengths 5ft. to 16ft. First-grade condition.
Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

WANTED, Two or more BAILEY BRIDGE or ex W.D. PONTOONS, suitable for mounting small crane. State price, condition and where lying. Write Box M.1123, "The Contract Journal."

LADDERS FROM STOCK
STEPS · TRESTLES · BOARDS · DUST SHEETS
Price List from THE PODMORE WORKS
769/773 Garratt Lane, S.W.17 Tel: Wimbledon 7622

GRANITE SETTS
DELIVERED ANYWHERE
HARRIS & BAILEY LTD.
CROYDON
ADDiscombe 3181 Ref: Mr. T. A. Jones

CARAVANS
Site Offices, Silver Knight, ex Laing's.
Excellent Condition, £250.
LYING AT WOLVERHAMPTON.
BOUTS MOTORS LTD
Stafford St., Wolverhampton.
Tel: 23295/6/7

All Grades Tarred and Dry Limestone, Hardcore, Ashes, Red Shale, Concrete Aggregates, High Grade Screened Building Sand delivered in the Midlands, Nottingham area or F.O.R. Capacity 750 tons daily, hopper loaded, weighbridge on site, 4 miles from Nottingham,
SHENINGTON QUARRIES LTD.
2 BOSWORTH ROAD, NOTTINGHAM
Telephone - Nottingham 84819

MISCELLANEOUS ITEMS, BUILDINGS, PROTECTIVE CLOTHING, FENCING, TARPAULINS, ETC.

FOR SALE.
500 tons re-layable 75lb. per yard F.B. RAILS, in 36ft. lengths, with fishplates and fishbolts, etc., to suit.
20 CROSSINGS in re-layable 75lb. per yd. F.B. rail, with all necessary fittings.
100 tons of re-layable 95lb. per yd. B.H. RAILS, in 60ft. lengths, with fishplates to suit.
2,000 re-layable CHAIRED SLEEPERS, suitable for 95lb. per yd. B.H. rail.
EDWARD ASH, LTD.,
Kent Wharf, Creekside, Deptford, London, S.E.8.

FOR SALE.
ADJUSTABLE PROPS, 1,500 Type 1X, 400 Type No. 2X.
ADJUSTABLE STRUTS, 400 Type No. 1, 200 Type No. 2, 1,000 Type No. 3. All in perfect condition.
Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

FOR SALE
Steel SCAFFOLDING, 5/21ft. lengths. Large quants. SCAFFOLDING COUPLINGS, all types, new condition. Keen prices.
HUNTS. AND BEDS. MACHINERY CO., 23 Huntingdon Street, St. Neots, Hunts. St. Neots 108.

CIRCULAR TIPPING SKIPS, 2½ cu. ft. to 2 cu. yd. CONCRETE POURING SKIPS also available. For SALE and HIRE.
PLANT AND BUILDING EQUIPMENT, LTD., Chatfield Works, 1 Chatfield Road, Battersea, London, S.W.11. Telephone: BATtersea 9213.

WANTED, surplus stocks of COAL SLACK, FILTER COKE and other types of SOLID FUEL.
C.A.G. (LONDON), LTD., Industrial Fuel Distributors, 122 Westbourne Park Road, London, W.2. Telephone: BAYswater 2288/9.

WANTED, Alloy and Steel TUBULAR SCAFFOLD, in large quantities only. Sites cleared anywhere. Also NON-MECHANICAL BUILDER PLANT.
Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

SHEET LEAD (4lb. f.s.), 85/-.
Telephone: BUCkhurst 6688.

DIRT, GREASE, OIL, the grime of years, melt away before the high-velocity jet of DRY steam and detergent with the "SPEEDYJET" Electric Mobile Steam Cleaner. Compact, portable, without fumes or fire risk. Ideal for machinery, contractors' plant, transport vehicles, yards. Just plug in, and ONE man does the work of five and much more thoroughly. Let us demonstrate at your premises. Send for leaflet S.231: BASTIAN AND ALLEN, LTD., Ferndale Terrace, Harrow, Middlesex. Tel.: HARrow 7171.

STEEL.—60 tons 1in. Square Grip Mild, new, stock rusty; 40ft. long R.S.J.s, Channels; wide range and good stocks second-hand and stock rusty M.S. Rounds, most diameters. CORRUGATED IRON, second-hand, galvanised and black.
A. F. SIMPSON, LTD.,
68/70 Penge Road, South Norwood, S.E.25.
Telephone: Sydenham 3131 (3 lines).

FOR SALE, Little Giant Burton DOUBLE COUPLERS, 50,000 in perfect condition. SWIVELS, JOINT PINS and PUTLOG CLIPS also available.
Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

FENCING in OAK, prepared to specification, delivered any area. Also GATES and POSTS, all sizes, fitted ironwork. Keen prices.—J. P. WILLIAMS, Middleton Road Sawmills, Oswestry. Telephone 590.

SPOT CASH FOR SECOND-HAND HUTS.
Sites cleared.
PANEL-LASTIC CONSTRUCTION CO., LTD., Belvedere Works, Railway Terrace, Feltham, Middlesex. Telephone: Feltham 5761.

ROMNEY HUT, 96ft. x 35ft., framework only, £210. New Galvanised Curved Sheets to cover, £325. Free delivery 50 miles. Ends extra.—Details: 43 Annandale Avenue, Bognor Regis. Telephone 1206.

TRUSCOTT FENCING, LTD., DORKING, SURREY. Telephone 3416.
All classes of FENCING supplied and erected. Specialists in Chain Link. Estimates free.

WANTED, BRICK and CONCRETE HARDCORE, any quantity. — R. BARKER (PECKHAM), LTD., New Cross 3337.

CONSIDERABLE reductions for quantities.
BRASS WOOD SCREWS, countersunk head, slotted; round head, slotted, etc.
COPPER BOAT NAILS, countersunk head, rose head. Various sizes.
WIRE NAILS, mild steel, galvanised: 500lb. 1½in. x No. 12; 6,000lb. 3½in. x No. 7.
WIRE NAILS, galvanised, brad head: 43,000lb. 1½in. x No. 15.
Full specification, etc., on request.
BUTLER TRADING (SOUTHSEA), LTD., 80 Marmion Road, Portsmouth. Telephone 25244/5.

ASK ANN FUCHS
for New or Second-hand PROPS, BEAM CLAMPS, COLUMN CLAMPS, TRENCH STRUTS, ROAD-FORMS, SCAFFOLD TUBES and Fittings.
Also additional equipment not listed.
87/89 Walham Street, S.W.3.
Telephone: Kensington 8526.

WANTED, used Corrugated Steel SHEETS from 4ft. and up, 22-gauge or heavier. Also Anderson and Elephant SHEETS.
Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

TRENCH SHEETS, in lengths 6ft., 8ft., 10ft., 12ft. and 14ft., available for SALE and HIRE.
PLANT AND BUILDING EQUIPMENT, LTD., Chatfield Works, 1 Chatfield Road, Battersea, London, S.W.11. Telephone: BATtersea 9213.

TARPAULINS for SALE and HIRE.
EDWARD ASH, LTD.,
Kent Wharf, Creekside, Deptford, S.E.8.
Telephone: Tideway 2661/2.

FOR SALE, 11,000-gallon DIESEL STORAGE TANK and 25,000-gallon WATER COOLING TANK.—B.G. PLANT (SALES AGENCY), LTD., Watlington, Oxon. Watlington 44.

REQUIRED, approx. 2,500ft. of TRESTLE PIER SECTIONS in 3ft., 4ft., 8ft. and 12ft. lengths.
Write Box M.1108, "The Contract Journal."

WANTED, AIRCRAFT HANGARS.
MOLE AND BRAY, LTD.,
Stourport-on-Severn.

CONTRACTORS' AND BUILDERS'
TOOLS
JOHN MACNAMARA & COMPANY LIMITED
BUSH ROAD, LONDON, S.E.8.
BERMONDSEY 3275 & 1435

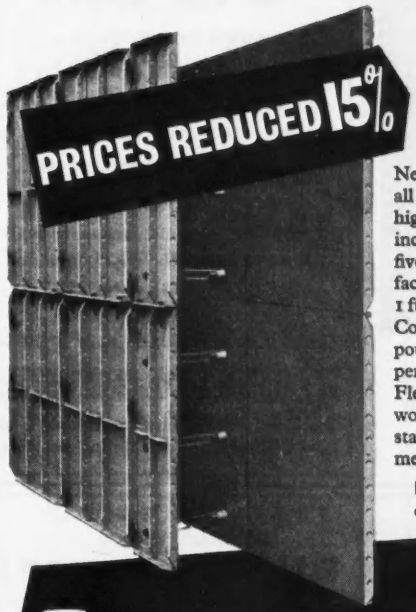
SLEEPERS—RELAYABLE & ROADWAY
CROSSING TIMBERS—ALL SIZES
DELIVERY ex STOCK
F. HARDWICK LTD.
ARMLEY ROAD, LEEDS 12. Phone: 23487

ALL SIZES—PROMPT DESPATCH
HUTS
THE PODMORE WORKS
769-773 GARRATT LANE, LONDON, S.W.17
Keen Prices—Phone: WIMBLEDON 7622

RED SHALE
DELIVERED OR EX OUR TIP AT
ORMSKIRK
DIAMOND INDUSTRIES (MANCHESTER) LTD.
Market Street, STALYBRIDGE. STA 3344

SECTIONAL TIMBER BUILDINGS
For quality with economy, buy "MIDDLESEX"
Standard size range from 8' x 6' to 100' x 30'
J. E. LESSER & SONS LTD.
GREEN LANE HOUNSLOW, MIDDLESEX
Telephone: HOUNSLOW 7281/7

EDWARD ASH, LTD.
FOR
RAILWAY SLEEPERS
AND
CROSSING TIMBERS
KENT WHARF, CREEKSIDE, DEPTFORD, S.E.8
Telephone: Tideway 2661-2



From January 1st, 1960 prices of Improved Blawforms are Reduced by 15%..... made possible by quantity production.

New Improved "BLAWFORMS" meet all the demands imposed by present-day high-speed construction methods, and incorporate: 3 in. Channel Uprights, in five lengths, from part of the working face and are used with all ties • 3 ft. x 1 ft. Anchor Panels used with wall ties • Complete range of 3 ft. Panels for deeper pours • Lap or Make-up Angles give perfect finish to lift joints • 3 ft. x 2 ft. Flexible Panels for curved or circular work • New Fixing Clip permits use of standard tubular scaffolding for alignment.

Fully interchangeable with your existing stocks of Blawforms.

Improved **BLAWFORMS**

FOR
WALLS · FLOORS · BEAMS
COLUMNS · BLOCK MOULDS
CIRCULAR TANKS

BLAW KNOX LIMITED
Box No. 146 90/94 Brompton Road · S.W.3
BK 570

CAMBRIDGE ASPHALTE CO. LTD.
SWANN ROAD, CAMBRIDGE
Telephone: 2606 & 58281/3
ALSO
FLEXIBLE ROOFING PITCH MASTIC

HIRE
LADDERS
UP TO 80 FT. EXTENDED
TOWER LADDERS
UP TO 35 FT. WORKING HEIGHT
POLE LADDERS
UP TO 80 RUNGS
TRESTLES & STEPS
FROM
JOHN MACNAMARA
& CO. LIMITED
BUSH ROAD, LONDON, S.E.8
BERMONDSEY 3275 & 1435

MISCELLANEOUS ITEMS, ETC.

NISSEN-TYPE HUTS, 16ft., 24ft. and 30ft. span, clad new or second-hand sheeting. Also new Galvanised NISSEN SHEETS for SALE, all standard sizes. NAYLOR'S (BILSTON), LTD., 204 Wolverhampton Street, Bilston 41689.

CONCRETE SHUTTERING, R.M.D. and Guyrex PANELS, SOLDIERS and JOISTS, cleaned and painted. Reasonable prices.—WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

FOR SALE, NEW ROADFORM PINS. ⅞in. or 1in. dia. x 2ft. long.—TEMPLE MILLS (STEEL), LTD., Temple Mills Lane, Stratford, E.15. Tel.: Maryland 2660/7734.

WANTED, Second-hand GRANITE KERB, SETTS, BLOCKS, also PAVING, any quantity. Full details, write Box F.H.987, "The Contract Journal."

CLINKER ASH for SALE, delivered collected, or f.o.r. Samples sent on request. Write Box V.T.388, "The Contract Journal."

ELECTRICAL, SPARES AND OVERHAULS, VEHICLES AND ANCILLARIES

CYLINDER HEADS.—Caterpillar, International, Ruston, Diamond "T," B.M.C., A.E.C., Gardner, etc., perfectly repaired by our special "FUSION WELDING PROCESS" no matter how badly cracked. Finished machined, tested, standard. Also Repairs to Crankcases, Sumps, Differentials, etc. Axles, rear and front, reconditioned. Exchange P6, R6, P4 Heads. Established 40 years. Satisfaction guaranteed.—ANGELL AND WILLIAMS (PECKHAM), LTD., Sumner Road, S.E.15. Telephone: RODney 3559.

GUARANTEED used TRACTOR and CRAWLER SPARES for SALE. Always dismantling good tractors. Everything available: Tracks, Rollers, Sprockets, Tyres, etc. Terms C.W.O. Money back guarantee. 300 Tractors in stock.
SHELTON, Tractor/Crawler Spare Specialist
Westwood Farm, Bulby, Bourne, Lincs. Edenham 223/4.

GM 71 SERIES
GENUINE SPARES
COMPREHENSIVE STOCKS
40% OFF LIST PRICE
P.R.LOWE & Co. 28 GROVE RD., SUTTON, SURREY Tel: Melville 1839

RUSTON EXCHANGE ENGINE SERVICE
Consult the Specialists
Wheatley & Whiteley
99 Kirkstall Road, Leeds 3
Tel: 31122

MATHEW BROTHERS
ARE SO HELPFUL
FOR
DIESEL GENERATING SETS
SALE OR HIRE
YOUR ENQUIRIES WELCOMED
MATBRO
GROUP OF COMPANIES
"Matbro" House, Beddington Lane, Croydon, Surrey.
THOrnton Heath 3402-3-4

ELECTRICAL EQUIPMENT, SPARES AND OVERHAULS, VEHICLES AND ANCILLARIES

NEW Ford Trader Diesel TRACTOR UNIT, fitted with 12-ton Low-loader B.T.C. Trailer, knock-out axle. Whole outfit brand new and unregistered. Available for immediate delivery. List price £2,289. Would separate. Terms, part exchanges.—RICHARDSON'S (RUGELEY), LTD., Ford Agents, Rugeley, Staffs. Telephone: Rugeley 451/2/3.

FOR SALE.
1959 Trader ARTIC., blue/black, S.A.E. coupling, 12-ton, k.o., 12ft. well, Crane Trailer, 5,000 miles, £1,750.
1957 3-ton S.W.B. Trader, small mileage, 4D, £495.
CHASESIDE MOTOR CO., LTD.,
Castle Street, Hertford. Telephone: Hertford 2456.

DIESEL ENGINES SERVICE EXCHANGE. For Smith Excavators, Ingersoll, C.P.T. and other Compressors. Foden and E.R.F. Dumpers and Tippers. Muir-Hill and Chaseside Loaders and Dumpers. Field service available day and night.
TILSLEY AND LOVATT, LTD.,
Engine and Plant Division, Stoke-on-Trent.

THE Civil Engineers' Depot for Generators can SUPPLY you with LIGHTING GENERATORS, TELESCOPIC STANDS, CABLES and GLOBES. RYE-ARC, LTD., Plant Hire Division, Silvertown Works, North Woolwich Road, London, E.16. Telephone: Albert Dock 4381.

J. J. JOHNSTON AND CO., LTD., For REPAIRS, OVERHAULS and FIELD SERVICE of all types of Contractors' Plant, Mobile Cranes, etc. 'Phone: Elgar 6905, RAPIER SPARES and SERVICE. Coronation Road, Park Royal, London, N.W.10.

FOR SALE, 8-h.p. Enfield Single-cyl. Air-cooled DIESEL ENGINE, as new, having done very little work.—A. J. WARD AND SONS, LTD., Egham, Staines 54111/2/3.

WANTED, SPARES for Browning Crane and General 407 Excavator.—W. ELLIOTT AND SONS (YORK), LTD., Wetherby Road, York. Tel. 78220.

WANTED URGENTLY. Single-cyl. Blackstone DIESEL ENGINE. CORNEILL AND CO., Manchester, 13. RUSholme 1769.

BEDFORD 5 cu. yd. TIPPERS, S.W.B., average price £320 each. Bedford and Austin 4 x 4 TRUCKS, average price £120 each. Bedford 5-ton TRUCKS, on single wheels, average price £110 each. Bedford UTILICONS, average price £320 each. Some as new, with very low mileage, all unregistered ex Ministry, with written guarantee. H.P. terms.—G. R. YEOMANS, LTD., Oxford Road, Ryton, Coventry.

LISTER Diesel Start-Automatic GENERATING SET, comprising 6-h.p. Engine, No. 671652, r.p.m. 650, kVA Generator 2.5, volts 230, cycles 50, phase 1. Complete as taken out with batteries. This plant is in excellent condition and been little used, £125. NORMAN WALKER (MACHINERY), LTD., Anlaby, Hull.

FOR SALE, One 4-cyl. Thornycroft AC4 PETROL ENGINE, complete with fan but without radiator, £15; also Two 6-cyl. Chrysler PETROL ENGINES, with fans but without radiators, £10 each. CONTRACTORS' PLANT HIRING CO., LTD., Barkby Road, Leicester. Telephone 66631.

BEDFORD TIPPERS, 1953 A Type, Anthony Hoist, steel bodies, 50 available, ex Laings, from £220. Lying at Wolverhampton and Stoke-on-Trent.—BOUTS MOTORS, LTD., Stafford Street, Wolverhampton. Telephone 23295/6/7.

FORD 1960 6D ARTICULATED UNIT and LOW-LOADING TRAILER, 16ft. well, k.o. axle, S.A.E. coupling. All as new. Price £2,000.—ERIC WARBURTON, Dairy House Farm, Ashley, Altrincham (Tel. 1501), Ches.

FOR SALE, International ROLLERS, TRACK PIN and BUSH GROUPS, TRACK BOLTS, TD9 TRACK CHAINS and other SPARES of all descriptions. Good discounts.
Write Box E.9439, "The Contract Journal."

FOR SALE, 14/22 Armstrong Siddeley Twin-cyl. Air-cooled DIESEL ENGINE, completely reconditioned.—A. J. WARD AND SONS, LTD., Egham, Staines 54111/2/3.

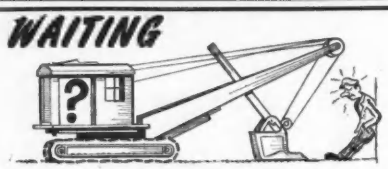
WANTED to PURCHASE, ARTICULATED LOW-LOAD TRAILER, with or without tractor unit for same.—Write Box E.9681, "The Contract Journal."

FOR SALE
T.D.18 and T.D.18A Engines, complete with all accessories, in original cases as from the U.S.A.
LESS THAN HALF LIST PRICE.
Write Box E.9440, "The Contract Journal."

SPEEDY SPARES SERVICE
J·A·P Villiers
PETTERS
Lister
ARMSTRONG SIDDELEY
GREENWICH 5633
DANDRIDGE'S
of GREENWICH
129-143 WOOLWICH RD., S.E.10

For prompt delivery of...
Petter J·A·P Villiers
ENGINES · SPARES · SERVICE
...get in touch with
LEWIS & LEWIS LTD.
SCHOOL RD., NORTH ACTON, LONDON, N.W.10
ELGAR 6757 (4 LINES)

COACH SPECIALISTS of the SOUTH
always have available a
Large stock of Good Used
PASSENGER VEHICLES
many with C.O.F.s
Ideal for conveyance of staff
Yearly Road Fund Tax £12.10.0
BEDFORD 26 str. Coaches from £75
or suitable for SITE OFFICES, from £50
A.E.C., LEYLAND, etc., 33/35 str.
from £100
Let us demonstrate at your premises
E. J. BAKER & CO. (DORKING) LTD.
The Coach Works, Farnham Trading Estate,
Farnham, Surrey. Telephone: 4626/7

WAITING

...Obviously not OUR Customer!
RUSTON·SERVICE
EXCHANGE ENGINES INSTALLED IN ALL TYPES OF PLANT DURING WEEK-ENDS OR TO SUIT CUSTOMER'S CONVENIENCE
TILSLEY & LOVATT LTD.
ENGINE & PLANT DIVISION, NEWSTEAD TRADING ESTATE
TRENTHAM, STOKE-ON-TRENT, STAFFS
Telephone: Trentham 57331/3
Grams: "Diesel" Stoke-on-Trent

ELECTRICAL, SPARES AND OVERHAULS, VEHICLES AND ANCILLARIES

RUSTON POWER TO SERVE YOU From stock: SERVICE EXCHANGE ENGINES, Type VRON, VROHN, VRHN, VQBN, VPHN, YEN, VCBN.
Full range of ENGINES from 10RB to 54RB Excavators.
SERVICE EXCHANGE ENGINES also stocked for Cranes, Locos., Pumps, Power Packs, etc.
CHANGEOVERS to EXCAVATORS and other PLANT UNDERTAKEN on site by STAFF of competent FIELD ENGINEERS.
TILSLEY AND LOVATT, LTD., Engine and Plant Div., Newstead Trading Estate, Trentham, Stoke-on-Trent.
Telephone: Trentham 57331 and 57332.
Telegrams: "Diesel," Stoke-on-Trent.

SPARES FOR SALE. 10BD Muir-Hill Dumpers.
C.P.T. Compressors.
Blaw Knox 12S.
List prices less 40 per cent. discount for complete lots.
Lists on application.
WILSON PLANT HIRE, LTD.,
Weedon Road, Northampton. Tel.: Northampton 4653/4.

FOR SALE, one Fully Reconditioned Cummins L DIESEL ENGINE, ex Lima 1201, fitted with new Crankshaft, Pistons and Liners, and on completion, satisfactorily dynamometer tested; Radiator and Clutch (not overhauled) available.—PLANT SALES, LTD., 25 Castlereagh Street, London, W.1. (Tel.: Paddington 2663/5.)

TWO Seddon Medium W.B. TIPPERS, under 3 tons, with alloy bodies, both in excellent order: 1956, £500; 1952, £275.—SHELTON, Bulby, Bourne, Lincs. Telephone: Edenham 223/4.

WANTED, REPLACEMENT PARTS for all Crawlers, Tractors and Contractors' Plant.
Write Box E.F.513, "The Contract Journal."

BRISTOL ANGLEDOZERS & EQUIPMENT. Immediate SPARES and REPAIR SERVICE for all models.—H. A. SAUNDERS, LTD., Main Distributors, The Butts, Worcester. Telephone 6651.

WANTED, ELECTRIC STARTER for Caterpillar R4 Tractor, year 1943.—NORMAN WALKER (MACHINERY), LTD., Anlaby, Hull.

FRANK COWLEY 200

DEPENDABLE BUSES AND COACHES FOR YOUR INSPECTION AND TEST

ALL VEHICLES CAN BE TAXED AT £12 10 0 PER YEAR

1948 A.E.C. 34-seater Buses, fitted A.E.C. 7.7 or 9.6 Diesel Engines. First-class throughout. £295 each.

1949/50 DENNIS 33/35-seater Coaches, fitted Dennis Big 6 Diesels and Gardner 5LW Diesels, with 5-speed gearboxes. Excellent machines, £325 each.

1948 BRISTOL 35-seater Buses, fitted Gardner 5LW Diesels and 5-speed gearboxes. First-class machines, £325 each.

1945/46/47/48 A.E.C. Guy and Daimler 39-seater Buses, fitted with modern 8ft. wide bodies, and powered by Gardner 5LW and A.E.C. 7.7 Diesels. Good, sound, clean, genuine machines, £250 each.

LEYLAND PS1 and TS8 32/35-seater Single-deck Buses and Coaches, from £175 each. All road tested and ready for work.

1947/1948 A.E.C. Guy and Leyland Double-deckers, high and low bridge, A.E.C. 7.7, Gardner 5LW and 6LW Diesels, also Leyland PD1 Diesels. From £195 ea.

Write for latest stock list, also special spare part price list showing saving of 75% on spares.

ALL VEHICLES CARRY OUR THREE MONTHS' GUARANTEE

WILL TAKE YOUR OLD VEHICLES IN PART EXCHANGE

FRANK COWLEY
3 Blackfriars Road, Salford, 3
Phone: MANCHESTER BLACKFRIARS 7577 and BLACKFRIARS 1048

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

FOR SALE ex Stock at Keenest Prices.
Barber-Greene Model 879A (1952), fitted Perkins P6 Diesel, recently overhauled, in very good condition, price £1,650.
22RB, choice of two, 19000 Series.
19RB, choice of three machines from 1952, from £2,250.
10RB, choice of several late machines, from £1,250, any equipment.
Priestman Wolf 3A and 3B, from £1,000 to £1,500, single equipment.
Ransomes Rapier 423 (5/8), new 1952, fitted Shovel, £150. Spares, little used, price £1,400. Full list of above Excavator sent by return.
Muir-Hill SHOVEL (1953), fitted Fordson Diesel Engine, excellent order, cheap £375.
Fordson-Barford ½yd. SHOVEL, with special low-reduction gear, equipment hardly used since fitted to Fordson, £135.
D2 5U (1949) TRAXCAVATOR, with Spares valued about £300, ¾yd. Bucket, Blade and Cab, little used since completely rebuilt, £700 the lot.
LS9 SCRAPER, new 1949, good tyres, £500.
Le Tourneau, Model M, 6yd., £200.
5-ton Single-motor SCOTCH DERRICK, with Auto Indicators, 80ft. Jib, very good structure, keen price to clear.
Excavator Equipments, all types available.
SAVILLE-CALVERT (MACHINERY), LTD.,
Harvester House, Stratford-upon-Avon, Warwickshire.
Tel. 4242.

ONE Chaseside Diesel LOADING SHOVEL (1950), in first-class mechanical condition, £225. Several others from £100.—SHELTON, Bulby, Bourne, Lincs. Telephone: Edenham 223/4.

FOR SALE, 8cwt. Neals CRANE. — B.G. PLANT (SALES AGENCY), LTD., Watlington, Oxon. Watlington 44.

VALES PLANT REGISTER, LTD.
OFFER FOR IMMEDIATE SALE:
EXCAVATORS:
410 RANSOMES, ¾, all equipments, £650.
10RB, 10800, Skimmer and Backacter, £900.
10RB, 13000, any one equipment, £1,450.
10RB 18600 Series, Dragline, £1,825.
10RB, 19000 Series, Skimmer or Backacter or Dragline or F/S. £1,950.
SMITH Super 10, new 1951, Dragline, Skimmer and Backacter Cranes, very good condition, £1,800.
19RB, ⅝, 11000 Series, Dragline or Shovel, £2,050.
19RB, ⅝, 10700 Series, Dragline or Skimmer and Backacter, £1,600.
22RB, ¾, 22000 Series. Price on application.
24RB, ⅞, 17000 Series, Dragline, £3,000.
33RB, 10000 Series, Dragline or Shovel or Backacter, £3,850.
38RB, 16000 Series, F/S and Dragline, £9,250.
LIMA 1201, F/S Equipment, 328110 Series, Cummins Engine, £3,000.
SHAWNEE Scout Digger, on County Crawler Diesel Tractor, with Bray Dozer, new 1954, £950.
FOR A COMPREHENSIVE LIST OF PLANT FOR SALE AND HIRE—SEND FOR VALES FREE PLANT REGISTER.
Further details: 14 Lower Grosvenor Place, London, S.W.1. Tel.: VICtoria 7531, 3501, 8080, 9886 (15 lines).

FOR SALE, 100 second-hand Larssen No. 3 Section STEEL SHEET PILES, in lengths approx. 45ft. Lying London.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Tel.: VICtoria 0252.

WANTED, complete HYDRAULIC BLADE EQUIPMENT for D7. Birtley preferred. Also 9yd. LT or Onions SCRAPER, late model. — E. A. BOND, LTD., New Road, Rumney, Cardiff.

PUMPS

SALE OR HIRE

★

THE GREENWICH PUMP & PLANT CO. LTD.
DENHAM ST., GREENWICH, S.E.10
GREENWICH 3189

DRAGON
PLANT HIRE LTD.

Excavators, Bulldozers, Overloaders, Crawler-Cranes, Trenchers, Dumpers, Mixers, Pumps, Drott Shovels, Road Rollers, Scrapers, 10 ton Articulated Loader, etc.

FOR HIRE EVERYWHERE

RING GUILDFORD 67277

FOR LIMAS
PLANT SALES LTD.,

25 CASTLEREAGH STREET, LONDON, W.1
Telephone: PADdington 2663-4

G. CARTER & SONS, LTD.
OFFER FOR IMMEDIATE HIRE

SIDEBOOM TRACTORS:
TRACTORS:
HD7, HD10 HD14, Dozer and Scraper.
D4, D6, D8, Dozer and Scraper.
TRACTO-SHOVELS:
HD5G, with 1¼ cu. yd. Bucket.
HD9G, with 2½ cu. yd. Bucket.
EXCAVATORS:
10RB, 19RB, all equipments.
J.C.B., Hydra-Diggs, all equipments.
DUMPERS:
Aveling, 4½ cu. yd.
ROLLERS:
5-ton, 8-ton, Diesel.
CRANES:
5-ton, lorry-mounted.
10-ton, lorry-mounted, 30ft.-60ft. Jib.
PUMPS:
3in. L. and F. Diaphragm.
3in. Centrifugal.
MIXERS:
5/3½, 7/5, 10/7, 14/10.
TIPPING LORRIES:
Austin, 6 x 4.

All inquiries to:
G. CARTER AND SONS, LTD.,
YOKESFORD HILL, CUPERNHAM LANE, ROMSEY, HANTS.
Telephone: Braishfield 395.

MECHANICAL GRABS

Single Chain Ring discharge Grab of the Multiblade type fitted with patented Flexible Connections suitable for Steel Scrap, etc.

JOSEPH WESTWOOD & Co. Ltd.

Contractors to H.M. Government Departments, Crown Agents for the Colonies, British Railways (British Transport Commission), etc. etc. Bridge and Constructional Engineers; manufacturers of Pressed Steel Troughing and Sheet Metal Equipment. Steel Stock Holders.

NAPIER YARD, MILLWALL, LONDON, E.14
Telephone: EASt 1043

Grams: Westwood Easphone London
Cables: Westwood London

WESTWOODS

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

CONCRETE MIXERS for SALE or HIRE.
5/3½ Benford, Diesel-driven, four steel wheels.
5/3½ Benford and Liner High-speed Trailer Models.
5/3½ Winget, Petrol- and Diesel-driven, on two and four steel wheels.
5/3½ Stothert and Pitt, Petrol- and Diesel-driven, on four steel wheels.
5/3½ Maximixams, Petrol- and Diesel-driven, on four steel wheels.
5/3½ Ransomes Rapier, Petrol- and Diesel-driven, on four steel wheels.
7/5 Stothert and Pitt, Diesel-driven.
10/7 Winget, Ransomes Rapier, Rex, Parker, and Stothert and Pitt, on four steel wheels, Tilting and Closed Drum, Petrol-, Diesel- or Electric-driven. Some with Built-in Weighers.
14/10 and 18/12 Rex and Millars' Closed Drum, Electric- and Diesel-driven, with or without Built-in Weighers.
W. V. DAVIES, Concrete Mixer Service, Shipston-on-Stour. 'Phone 125.

NEW PARKER CONCRETE MIXERS.
Mini Giant, 4/3 cu. ft., Villiers Petrol Engine. Cash price £88 each.
Little Giant, 5/3½ cu. ft., Lister Diesel Engine. Cash price £173 each.
Delivery at once from stock.
Deferred or H.P. terms on request.
H. C. HILL, LTD.,
68/70 Penge Road, South Norwood, S.E.25.
Tel.: SYDenham 3131/4.

FOR SALE, Caterpillar D8 TRACTOR, Serial 2U (ball change), complete with Birtley Hydraulic Bull/Angledozing Equipment. This machine has had one owner since new and has not been out on hire. Well maintained. Price £2,650 ex works.—COLBRO, LTD., Wood Lane, Rothwell Haigh, Leeds. Tel.: Rothwell 3258.

FOR SALE, Buildmaster BDK250 TOWER CRANE, 1954, available April, 1960, at Liverpool, complete with 180ft. of track, radius rails, switchgear, cable and 10ft. Jib extension, all in good condition. Inspection by appointment, or details from Box P.1050, "The Contract Journal."

BRISTOL 22 DOZER, sound condition, Perkins Diesel.
2-ton HYDRACRANE, rebuilt, new engine, chassis, etc.
BERESFORD ATKINSON, LTD.,
Hough House, Moston, Manchester, 10.
COLyhurst 2991/2.

FOR SALE.
120 Frodingham 1B PILES, 24ft.
50 Frodingham 1A PILES, 14/15ft.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Tel.: VICtoria 0252.

FOR SALE.
TOWER CRANES, J. Weitz Model G12, complete with Rails and Skips, £800 each.
TRENCH SHEETS, 10ft., as new, 3/6d. per ft.
FIBREGLASS, 10yd. rolls, 12/6d. each.
P.S.P., 10ft. x 15in., 12/6d. per length.
SAWBENCH, 16in., Electric, Universal type, £120.
Stothert and Pitt 10/7 CD MIXER, Petrol, £85.
PILE FRAME, 2-ton, 51ft., Sykes, £350.
AIR COMPRESSORS, S.H.50 to 600 c.f.m., Petrol, Diesel and Electric. Price on application.
Chassis ex C.P.T. COMPRESSORS, £10 each.
Priestman 33/27 HEAVY GRAB, 2-rope, £100.
Priestman 17/14 HEAVY GRAB, 2-rope, £70.
New Mobile SITE OFFICES, fitted, from £350.
CRANE SKIPS, 2 cu. ft. to 2 cu. yd. capacity.
CONCRETE PLACING SKIPS, ½ to 2 cu. yd. capacity.
Maco PIPELAYING WINCHES, ½-ton to 2-ton capacity.
ROADFORMS, 6in. to 10in. section.
41 New 9in. x 10ft. Standard ROADFORMS, complete with pins, 55s each.
M.E. ENGINEERING, LTD.,
457 Finchley Road, London, N.W.3. Telegrams: Mengilim, London. 'Phone: HAMpstead 7481-2-3.

FOR SALE.
Unused P. & H. 255A EXCAVATOR, Shovel, D/L.
Unused Le Tourneau Model LS 9yd. SCRAPERS. Low price.
WANTED:
Jules Weitz TOWER CRANES, sizes G30, G45 and G60.
THORNTON ENGINEERING CO., 38 Victoria Street, London, S.W.1. Tel.: Abbey 4068.

FOR SALE.
20RB, with Dragline Equipment, engine recently overhauled by Ruston agent.
WANTED:
32RB, with Face Shovel Equipment.
HEYS (BRITANNIA), LTD., Quarry Owners, 27 Tong End, Whitworth (Tel. 3295/6), Rochdale.

WANTED, Second-hand, two only 1,000-gallon or one only 2,000-gallon Oil-fired BITUMEN HEATERS, with power-operated Stirring Gear.—Replies to THE CORSTORPHINE WHINSTONE QUARRY CO., LTD., 27 Stafford Street, Edinburgh, 3.

REQUIRED to purchase, Two Heavy Duty ¾yd. GRABS.—Details and location to GREENHAM (PLANT HIRE), LTD., Middlemore Lane, Aldridge. Tel.: ALD 52861.

FOR SALE, 10RB EXCAVATOR, 20 months old, Backacter with 18in. and 30in. Buckets, Skimmer conversion, excellent condition, little used, £2,250. No agents.—Write Box P.1138, "The Contract Journal."

MODERN PLANT FOR HIRE, with experienced operators and backed by an efficient service organisation:—
EXCAVATORS, ¼, ⅜ and ½ cu. yd.
J.C.B. HYDRA-DIGGAS.
DUMPERS, ½ to 4 cu. yd., Diesel.
ROAD ROLLERS, 1 to 12 tons.
COMPRESSORS—Mobile and Portable, with every type of equipment.
Chaseside SHOVELS, ½ to 1 cu. yd.
ANGLEDOZERS—International and Fowler.
CONCRETE MIXERS, 5/3½ to 14/10 cu. ft.
PUMPS, 1½in. to 6in., Diesel.
Earth Rammers, Hoists, Cranes, Mortar Pans, Kango Hammers, Roadforms, Traffic Lights, Scaffolding, and most types of contractors' plant.
HUBERT C. LEACH, LTD.,
131 High Street, Cheshunt, Herts.
Tel.: Waltham Cross 25161 (5 lines).

WELDING PLANT FOR HIRE.
Also:
COMPRESSORS,
MOBILE CRANES,
LIGHTING PLANTS.
RYE-ARC, LTD., Plant Hire Division,
Silvertown Works, North Woolwich Road, London, E.16.
'Phone: ALBert Dock 4381 (10 lines).

FOR SALE, N.C.K. 304, with three equipments, Forward Shovel, Dragline and Backacter. Thoroughly overhauled where necessary and in first-class condition.
PLANT SALES, LTD.,
25 Castlereagh Street, London, W.1. PADdington 2663/5.

AVAILABLE for immediate HIRE: 19RB and 10RB EXCAVATORS, all equipments. D7, TD18 and TD14 TRACTORS, with Dozers and Scrapers. Apply: TILBURY CONSTRUCTION CO., LTD., Ruscombe Works, Twyford, Berks. Tel.: Twyford 177 (four lines).

FOR SALE.
One Ransomes CALFDOZER, little used, £220.
Three CONCRETE MIXERS, 10/7 Fowlers, Petrol, unused, £115 each.
PLANT HIRE AND SALES, LTD.,
Milbrookpoint Road, Southampton. Southampton 75271.

WANTED, a number of the following DIESEL ENGINES: Cummins H, Caterpillar D6, D7s and D8s. Also complete TD6 TRACTORS.—Please reply, with full particulars of condition, location and price required, to Box P.1085, "The Contract Journal."

ROAD MACHINES Double Bucket SWING WEIGHERS, in excellent order.—W. V. DAVIES, Shipston-on-Stour. 'Phone 125.

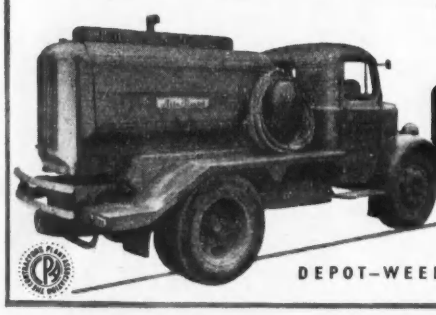
Rapid expansion has decreed us Greater London's Largest Fleet Owners of
1960 1 yd. "DROTT" SKID SHOVELS

Always available for Hire
Your personal contact: MR. RONALD GENT
Tel: THOrnton Heath 3402/3/4
POWER PLANT HIRE (Beddington) LTD.
Beddington Lane, Croydon, Surrey

SWEEPER/COLLECTORS
FOR HIRE
DAILY — WEEKLY — MONTHLY
Sound machines available for re-sale
WALKERS MECHANICAL CLEANSING LIMITED
ROCKINGHAM ROAD, MARKET HARBOROUGH
TEL: 3168

DOE'S COLUMN
GRAND CLEARANCE SALE
10% off all prices quoted for used industrial machines during February.
HYDRAULIC EXCAVATORS:
1954 J.C.B. Hydraulic EXCAVATOR, on new remould 11 x 36 and 600 x 19 pneumatics. Overhauled throughout and powered by a Ford 4D Diesel Engine, complete with 24in. Bucket and front-mounted ½ cu. yd. Hydraulic Loading Shovel. £850
1957 J.C.B. Hydraulic EXCAVATOR, on very good 14 x 30 and 750 x 16 giant pneumatics, powered by a Ford 4D Diesel Engine, electric starting, with large, roomy, full-vision Cab, two Backacter Buckets, and fitted with front-mounted Hydraulic Loading Shovel. £1,050
1957 DINKUM DIGGER, on nearly new 11 x 36 and 600 x 19 pneumatics, fitted to new-type Fordson Major Diesel Tractor with electric starting and complete with ⅜ cu. yd. front Hydraulic Loading Shovel. The Excavator has been thoroughly overhauled, has 18in. and 24in. Buckets. £1,050
1958 Dinkum Major Hydraulic EXCAVATOR, mounted on new-type Fordson Major Diesel Tractor. This Excavator has just had a new main jib fitted and the slew post rebushed; also new slewing ropes fitted. The front-mounted Hydraulic Power Shovel is in good order and has just been fitted with a new crowd ram. The 14 x 30, 750 x 16 pneumatics are in good condition. £1,950
Late 1956 DINKUM DIGGER, with Hydraulic Sprag with a 24in. Bucket, powered by new-type Fordson Major Diesel Tractor, fitted with new giant 14 x 30 rear pneumatics and very good 750 x 16 fronts. Electric starting. Cab. This machine has been very carefully maintained and is in spotless condition. £950
1955 DINKUM DIGGER, with 24in. Bucket, powered by new-type Fordson Major Diesel Tractor on good 11 x 36 and 600 x 19 pneumatics. Electric starting, Cab, and fitted with front-mounted Hydraulic Dozaloda with ⅜ cu. yd. Bucket. £950
1955 DINKUM DIGGER, with 24in. Bucket, powered by new-type Fordson Major Diesel Tractor, fitted with good 11 x 36 and 600 x 19 pneumatics. Electric starting, Cab, overhauled throughout, tested and resprayed and fitted with front-mounted Hydraulic Bulldozer. £950
1954 DINKUM DIGGER, with 24in. Bucket, powered by new-type Fordson Major Diesel Tractor fitted with very good 11 x 36 and 600 x 19 pneumatics. Operator's Cab with lights. Rebushed right through and fitted new engine. £950
1954 DINKUM DIGGER, with 24in. Bucket, on new-type Fordson Major Diesel Tractor on good 11 x 36 and 600 x 19 pneumatics. Electric starting, and fitted with Skyhi ½ cu. yd. front-mounted Hydraulic Loading Shovel. Overhauled. £795
ERNEST DOE & SONS LTD.
Ulting, Maldon, Essex
Telephones: Day—Hatfield Peverel 311. Sales, Mr. Hall; works, Mr. Bennett; field service, Mr. Claydon; stores, Mr. Woodham.
Night—Sales, Hatfield Peverel 319; Service and spares, Hatfield Peverel 312.

hire it from...
ABELSON
Tel: SHEldon 2424

cut your COSTS with BETTER hire service

LORRY MOUNTED
2 TOOL
COMPRESSORS
WILSON PLANT HIRE LTD
DEPOT—WEEDON ROAD • NORTHAMPTON
PHONE • 4653 & 4654

MOORE'S DUMPER HIRE
½ to 3 cu. yd capacity.
Tel: TOTtenham 0401 (10 lines)

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

CONTRACTORS' PLANT for HIRE. EXCAVATORS, BULLDOZERS, 7-ton Diesel ROLLER, 2-ton and 5-ton MOBILE CRANES, MONO-RAIL TRANSPORTER EQUIPMENT, VIBRATORY ROLLERS, COMPRESSORS, MIXERS, PUMPS, etc.—Plant Dept., WM. TOWNSON AND SONS, LTD., Higher Swan Lane, Bolton. Telephone. Bolton 10140.

NARROW TRENCH BUCKETS to fit all machines, SALE or HIRE. The Norton Backacter Bucket designed by user digs harder material and empties more efficiently. Sizes 1ft. 6in./2ft. 4in. IMMEDIATE DELIVERY. Other sizes within 10 days. — Contact NORTON PLANT HIRE, LTD., Ramsden, Billericay, Essex. Telephone: Ramsden Heath 365/6.

FOR COMPRESSOR HIRE SERVICE.—From 1-tool to 12-tool (70 c.f.m. to 625 c.f.m. f.a.d.). Lorry mounted and Portable. Full range of Pneumatic Tools.—HUBERT C. LEACH, LTD., High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines).

GOOD selection of Builders' Plant, including Hand-fed and Hopper-fed MIXERS, Benford 10cwt and 15cwt. DUMPERS, RAMMERS, BELT LOADERS, VIBRATING ROLLERS, always available ex hire fleet. Description and prices available from HIREPLANT, LTD., North Circular Road, Stonebridge Park, N.W.10.

FOR SALE.
1,500 TRENCH SHEETS, 10/12/14ft.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Tel.: VICtoria 0252.

WANTED, CATERPILLAR D4, with or without equipment. Machine requiring track attention considered. Must be cheap.—Write Box P.1030, "The Contract Journal."

FOR SALE.
400 tons Larssen and Appleby-Frodingham STEEL SHEET PILES, Nos. 1, 2, 3 Sections.
No. 7 McKiernan-Terry PILING HAMMER, leg guides.
Two Blaw Knox CEMENT SILOS, 30 tons capacity. New 1958.
4in. Johnson Portable Diesel PUMPING SET, Recond.
No. 16 Spencer-Hopwood BOILER, fully insured, 100lb.
Weatherill SHOVEL, ¾yd., Ford Diesel. New 1955.
KL44 MOBILE CRANE, Ruston Diesel, pneumatics, 30/50ft. Jib. New 1955.
10-ton PORTASILO.
Neal N MOBILE CRANE, 20ft. Jib. Reconditioned engine.
50 tons TRENCH SHEETS, 10/12/14ft.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Tel.: VICtoria 0252.

FOR HIRE. Special rates for long term.
TD18, c/w Blade and Scraper.
Drotts, c/w 4-in-1 Equipment.
Bray and Muir-Hill SHOVELS
Coles 3½-ton Lorry-mounted CRANE.
3yd. DUMPERS.
MARSH PLANT AND MACHINERY CO., LTD., South Street, Emsworth, Hants. 'Phone 2032, 2634.

FOR SALE, new Single and Twin Diaphragm Lift and Force PUMPS, with Diesel drive. WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

FOR HIRE or SUB-CONTRACT, 955 TRAXCAVATOR and D4s available, first-class operators.—GEORGE SHEPPARD (HATFIELD), LTD., Hatfield (4222), Herts.

FOR SALE, Broomwade COMPRESSOR. F. JAMES AND SONS, Newport Pagnell 18 & 19.

FOR HIRE AND SALE. ARMSTRONG-WHITWORTH PNEUMATIC POKER-TYPE CONCRETE VIBRATORS.
We are distributors for all types of Armstrong-Whitworth Pneumatic CONTRACTORS' TOOLS, including Concrete Breakers, Light Picks, Clay Diggers, Rock Drills, Pumps, Backfill Rammers and Tampers, Hoses and Accessories. We hold a large stock of Spares and can give a 48-hour repair service. New and Second-hand Air Pumps COMPRESSORS for SALE. Send for list.
HUBERT C. LEACH, LTD., 131 High Street, Cheshunt, Herts. Telephone: Waltham Cross 25161 (5 lines).

WANTED TO BUY.
Two INTERNATIONALS TD18, fitted with RB Angledozing Equipment and P24 Winch. Machines must be in as new condition, ex Ministry preferred.
One CATERPILLAR D6, fitted Caterpillar Angledozer.
Several Benford Mk. 7 DUMPERS.
Offers to BOYES BROTHERS CONTRACTORS, 46a Trafalgar Street, Brighton, Sussex. Tel. 21183.

FOR SALE, 1949 50cwt. Aveling-Barford Diesel ROAD ROLLER, B00641, Ruston Diesel Engine, water tank and sprinklers, £550.
GENERAL ROADWORK, LTD., Mitcham Road, Croydon. Tel.: Thornton Heath 8252.

WANTED, ROAD ROLLERS, Aveling-Barford and Marshall, 7-ton to 8-ton Diesels, 1948 or later, with Scarifiers, etc. Also late 2-ton model.—Full particulars and price to A. M. COLE, Eastgate, Sleaford, Lincs. Tel. 463.

SALE or HIRE, 3½-ton Vibro-Verken Trailer Type VIBRATING ROLLER, Diesel driven, battery start. New November, 1958. Excellent condition.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Tel.: VICtoria 0252.

HAVE MONEY—WILL TRAVEL
If you have SURPLUS PLANT but prefer surplus cash—if you wish to sell but have no time for so-called agents—if you are satisfied with a reasonable price for your surplus plant—then contact, with date, condition and price:
FIELDS,
Forest Edge, Ringwood Road, Ferndown, Dorset.

USED EQUIPMENT with a GUARANTEE

CHASESIDE USED EQUIPMENT DIVISION

IF YOU REQUIRE A RELIABLE USED MACHINE YOU NEED LOOK NO FARTHER THAN HERTORD.

Come and inspect our full stock, for in addition to the machines listed below we have machines at prices to suit all requirements.

HYDRAULIC MACHINES:
Stock No. Net ex works
SK.1045.—1956 LOADMASTER 800TC, Fordson Diesel Engine, All-weather Cab, Power Steering, 1 cu. yd. Toothed Scoop, tyres good (rears 1400 x 24). 30 days' warranty. Seen HERTFORD £1,725
SK.1076.—1957 LOADMASTER 700, Fordson Diesel Engine, Cab, Lighting, 1 cu. yd. Scoop, good tyres (rears 1400 x 24). 30 days' warranty. Seen CARDIFF £1,325
SK.1084.—1956 LOADMASTER 500, Fordson Diesel Engine, Cab, Lighting, 1 cu. yd. Scoop, good tyres (rears 1400 x 24) 30 days' warranty. Seen HERTFORD £1,275
SK.1087.—1955 LOADMASTER 500, Fordson Diesel Engine, Cab, ¾ cu. yd. Scoop, very good machine on good tyres (rears 1400 x 24). 30 days' warranty. Seen HERTFORD £1,225
SK.1146. — 1958 LOADMASTER 700, ex Demonstration machine, Fordson Diesel Engine, All-weather Cab, Lighting, Power Steering, 1 cu. yd. Toothed Scoop, on very good tyres (rears 1400 x 24). 90 days' warranty. Seen HERTFORD £1,725
SK.1103.—1954 WEATHERILL 2H, Fordson Diesel Engine, overhauled, good tyres. 30 days' warranty. Seen HERTFORD £750

CABLE-OPERATED MACHINES:
SK.952.—1949 CHASESIDE ½yd. Hi-Lift Loading Shovel, Fordson Major Petrol Engine, Cab, in running order. Seen GLASGOW £90
SK.1081.—1954 CHASESIDE ¾ cu. yd. Demon Loading Shovel, Fordson Diesel Engine, Cab, Lighting, on good tyres (rears 1400 x 24). In excellent condition. 30 days' warranty. Seen HERTFORD £350
SK.1088.—1946 CHASESIDE ½ cu. yd. Loading Shovel, Fordson Major Petrol Engine, Cab, in running order. Seen HERTFORD £100
SK.1108.—1954 CHASESIDE ½ cu. yd. Automatic moving Jib, Loading Shovel, Fordson Diesel Engine, Cab, good tyres, very good machine. 30 days' warranty. Seen HERTFORD £475
SK.1140.—1953 CHASESIDE ½ cu. yd. Loading Shovel, Fordson Diesel Engine, Cab, serviceable tyres, in running order £200

MOBILE CRANE:
SK.908.—1953 CHASESIDE 1-ton Handy Crane, Fordson Diesel Engine, new Jib and Fully Block fitted, good tyres (rears 1400 x 24), excellent machine. 30 days' warranty. Seen HERTFORD £500

Send for full particulars to:
CHASESIDE ENGINEERING CO., LTD.,
Used Equipment Division,
Station Works, Hertford, Herts.
Telephone: Hertford 3113-8.

TAS/UED65

ADVERTISERS OWN LARGE LIMESTONE QUARRY
Firms interested in working the quarry to produce a very large quantity in minimum daily amounts of 1,000 tons of 2½" and down, please write Box P.1077 "The Contract Journal".

COMPRESSOR HIRE
Sarton & Co. (London) Ltd.
UXBRIDGE DARLINGTON MANCHESTER BRIGGEND WALSALL LEEDS

GAZEWAY OFFER
PLANT FOR SALE

TRACTOR ROLLER OIL in 4½-gallon Jerricans, HD30, 15/- per can.
½ cu. yd. DRAGLINE BUCKETS, unused, fully dressed, £135.
⅝ cu. yd. DRAGLINE BUCKETS, £140.
10RB DIGGER ARM and BUCKET, unused, £85.
10RB FAIRLEADS, £45.
19RB FAIRLEADS, £50.
33RB FAIRLEADS, £60.
10RB SKIMMER/BACKACTER EQUIP., complete, £145.
3A Priestman Wolf/Cub BACKACTER/SKIMMER EQUIPMENT, £140.
Jones Super 20 CRANE, Diesel driven Ruston, on solids, £450.
10RB EXCAVATOR, Skimmer/Backacter Equipment, 19600 Series, £1,650.
Priestman Wolf 3A 5097, overhauled, fitted Backacter, £950.
3in Ransomes CENTRIFUGAL PUMPS, Diesel, £45 each.
12-ton LOW-LOADER JACKS, with steel lands, £17 10s. per pair.
One Pair HD5 reconditioned TRACK CHAINS and One FRONT IDLER, £100.
D8 Caterpillar TRACTOR, 2V 6000 Series, in first-class order, fitted Hydraulic Angledozer, £2,500.
6yd. Ruston SCRAPER, in first-class order, £500.
Several D7 4T MACHINES, reconditioned, ex U.S. Government, fitted Cable Dozer and D/D Winch. Choice of 10 machines, from £2,150.
1yd. Westwood GRAB, self-dumping, overhauled. First-class order, £175.
150-Amp Petrol driven WELDING PLANT, £50.
High Tensile BOLTS of every description and size from stock. 50% list price.
18/12 Blaw Knox MIXER, Hydraulic Weighgear and Mould Scraper, Diesel, £500.
19RB BACK BALANCE WEIGHTS, £70.
International 15 to 20 ton LOW-LOADER, A.E.C. Diesel, 16ft. 6in. well, k.o. rears. In good order, £700.
Bedford 10-ton Petrol LOW-LOADER, 12ft. 6in. well, k.o. rears, £400.
15-kVA GENERATOR, 230-Volt A.C., powered by Gardner Diesel Engine, skid-mounted, £275.
30-kVA 400-Volt 50-cycles GENERATOR PLANT, powered by Perkins P6 Diesel Engine, skid-mounted, £250.
22RB EXCAVATOR, Diesel driven, 1956 year of manufacture, fitted as Dragline, £3,500.
International TD18 TRACTOR, fitted Hydraulic Bulldozer and Ruston D/D Winch, £1,450.
Jones Super 40 4-ton Diesel driven CRANE, £850.
Several ELECTRIC MOTORS, 400-Volt, from 5-h.p. to 100-h.p.

GAZEWAY PLANT HIRE LTD.
The Gazeway, Portsmouth Road, Thames Ditton, Surrey.
Telephone: EMBerbrook 5511 and 6147 (night 6147).

WEATHERILL HYDRAULIC

F. E. WEATHERILL LTD
USED EQUIPMENT DIVISION

We can meet your Used Loading Shovel requirements either at our main Works at Welwyn Garden City or our Depots at Walsall, Manchester and West Hartlepool.

1959 WHITLOCK DOZALODA, fitted with ½ cu. yd. Scoop, complete with lighting and driver's cab £675
1959 WEATHERILL Hydraulic LOADER, Type 12H, fitted with ¾ cu. yd. Scoop, powered by Fordson 4-cyl. Diesel Engine, 1400 x 24 rear tyres and fully enclosed driver's cab £1,300
1958 WEATHERILL Type 2HCRA, with ¾ cu. yd. Scoop, powered by Fordson Diesel Engine. This machine has just passed through our works and has been repainted. Tyres good £1,150
1954 WEATHERILL LOADER, Type 2H, fitted with 1¼ cu. yd. Scoop, Fordson Diesel Engine, 1400 x 24 tyres at rear £500
1957 MERTON OVERLOADER with 1 cu. yd. Scoop with Digger Teeth, double-acting main rams, lighting equipment. Tyres good. This machine in excellent order £1,200
1956 WEATHERILL Type 2HCRQ, with ¾ cu. yd. Scoop, powered by Fordson Diesel Engine, 1400 x 24 tyres at rear, all tyres in serviceable condition £950
1958 CHASESIDE LOADMASTER 700, fitted with 1 cu. yd. Scoop and lighting equipment. At present going through our service department for general check-up. Choice of two £1,150
1959 WEATHERILL MICROLODA Type P2 Pedestrian-controlled LOADER. Ex demonstration model £575
1948 CHASESIDE ½ cu. yd. Cable-operated HI-LIFT LOADING SHOVEL. Checked over and repainted by our works. 1200 x 24 tyres at rear with 34 x 7 front tyres, all in good condition. Choice of two £150

Ask for fuller details of these and other machines from our most comprehensive stock.

F. E. WEATHERILL LTD
USED EQUIPMENT DIVISION
Tewin Road,
WELWYN GARDEN CITY,
Herts.
Tel: Welwyn Garden City 4221-5

M. J. CROSE *THE FINEST NAME IN* **PIPELINE EQUIPMENT**
CLEANING, PRIMING, COATING & WRAPPING MACHINES, EARTH AUGER BORERS AND ANCILLARY EQUIPMENT
SOLE AGENTS AND DISTRIBUTORS: **A. LONG & Co. Ltd., 45 PARLIAMENT STREET, S.W.1.** WHITEHALL 5064-5, 6577

★ *Further Classified Plant Advertisements on pages 625-632*

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

SLOGGETTS (ENGINEERING) CO., LTD.
FOR IMMEDIATE HIRE:
COMPRESSORS; TRACTORS; DINKUM DIGGERS; DOZERS; CALFDOZERS; CRANES; ROAD ROLLERS; FLOOR CENTRES; Acrow PROPS; PAINT SPRAYERS; MOBILE SITE OFFICES; PUMPS; HOISTS, 8/15cwt.; ROADFORMS, 5in to 10in., Light and Heavy Section; All CONTRACTORS' PLANT, long or short hire.
2 Burtons Road, Hampton Hill, Middlesex.
Telephone: Teddington Lock 1138/9.

FOR SALE, 7/9-ton Marshall Diesel ROAD ROLLER, No. 92467, year 1951, Perkins P4 Diesel Engine, fitted with Two-line Scarifier, Water Tank and Sprinklers and Driver's Cab. £1,850.
GENERAL ROADWORK, LTD.,
Mitcham Road, Croydon. Tel.: Thornton Heath 8252.

FOR HIRE, HD14 TRACTORS, with Dozers and/or 12yd. Scrapers; also 33RB Ruston EXCAVATORS, 1¼ cu. yd., with Dragline or Shovel Equipment.
SAND AND SHINGLE, LTD.,
Faggs Road, Feltham, Middlesex. Tel.: Feltham 3045.

DELMAG Diesel PILE HAMMERS . . . HIRE your machines from Britain's largest fleet. Models D5, D12 and D22 available with rope suspended leaders and leg guides. Suitable for any section of pile.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Tel.: VICtoria 0252.

FOR SALE, new and used Bristol Diesel CRAWLER TRACTORS, with Angledozers, Loading Shovels and Trench Diggers.—Demonstrations without obligation from the Main Dealers: H. A. SAUNDERS, LTD., 14-20 The Butts, Worcester. Telephone 6651.

REMEMBER that PLANT SALES, LTD., have the finest fleet of Heavy Duty Lima CRANES for HIRE. Consult them about your craneage problems.
PLANT SALES, LTD.,
25 Castlereagh Street, London, W.1. PADdington 2663/5

FOR HIRE in the Midlands, 10-ton Lorry-mounted CRANES, Jibs to 75ft.—L. NELSON AND CO., LTD., Lugtrout Lane, Solihull, Warwickshire. Telephone: Sheldon 4005.

NEAGRON (CONSTRUCTION), LTD.
OFFER FOR HIRE:
NEALS QM 4/6-ton capacity MOBILE CRANES, Jibs from 24/60ft., heavy duty pneumatics.
NEALS 2-ton MOBILE CRANES, mounted on pneumatic tyres or crawler tracks.
JONES KL44 3/4-ton capacity CRAWLER-MOUNTED CRANES, 24ft. Channel to 40ft. Lattice Jibs, with 10ft. Jury Jibs.
JONES Super 40 3-ton capacity CRAWLER-MOUNTED CRANES, with 30ft. and 40ft. Jibs.
COLES and LORAIN 5/25-ton capacity LORRY-MOUNTED CRANES.
LIMA 802 30-ton capacity CRAWLER-MOUNTED CRANE, fitted 80/100ft. Jib with Back Hitch Gantry First-class condition.
CONCRETE MIXERS, 5/3½, 7/5, 10/7, 14/10 and 21/14 cu. ft. capacity, Diesel-powered, high or standard discharge, with Integral Weighgear and Hand Scrapers.
DUMPERS, Diesel, ½/4½ cu. yd. capacity.
COMPRESSORS, Lorry-mounted and Portable, with full equipments.
ANT QUEEN Diesel MOBILE HOISTS, 7/10cwt. capacity, rail as required.
EXCAVATORS, 10, 19, 24, 33 RBs and N.C.K. 304, with all equipments.
40ft. HANGING LEADERS for 19RB or 22RB Excavators, complete with all necessary fittings.
DROTT and ALLIS-CHALMERS HD5G TRACTO-SHOVELS.
CATERPILLAR and BRISTOL TRACTORS, all sizes.
J.C.B. and DINKUM DIGGERS.
ROLLERS, 6¾cwt., vibrating, to 10-ton capacity.
SHUTTERING, SCAFFOLDING, PROPS, ROAD-FORMS, etc.
MONORAIL and C.P.O.A.C. CONCRETE PLACER EQUIPMENT.
CHINOOK HEATERS immediately available ex London depot.
FURTHER DETAILS:
Abbey House, Victoria Street, London, S.W.1.
Telephone: ABBey 5152 (4 lines).

FOR SALE, 1949 2½-ton Aveling Diesel ROLLER. — B.G. PLANT (SALES AGENCY). LTD., Watlington 44, Oxon.

PILING EXTRACTOR, Zenith No. 20, requires repair, £95 or near offer. — YOUNG, Contractors, Carmyle, Glasgow.

FOR SALE OR HIRE.
Bristol OVERLOADERS and BULLDOZERS, new and reconditioned.
Barford DUMPERS and MIXERS.
Portable Diesel AIR COMPRESSORS.
C. AND A. PLANT SERVICES, LTD., 202-212 Heald Grove, Rusholme, Manchester, 14. Tel.: RUSholme 7291.

NEAL NS45 MOBILE CRANE, 4/5-ton capacity, 45ft. Straight Lattice Jib, automatic audible and visual overload Indicator, Lister Diesel Engine, used on demonstration only, condition as new, bargain price, £2,750.—Write Box P.1074, "The Contract Journal."

EXCAVATOR (No. 4 Ruston) for SALE, year 1931, Machine No. 2075, complete with Dragline, Skimmer and Trencher. In good condition, ready for work, £350.—THOMAS BOW, Contractor, Lamartine Street, Nottingham. Telephone 51701/55991.

EXCELLENT Neals NM Type 2-ton Diesel CRANE on pneumatic tyres, with or without Priestman Grab. Any trial or inspection our works. £1,200.—NORMAN WALKER (MACHINERY), LTD., Anlaby, Hull.

FOR IMMEDIATE HIRE.
KL44 MOBILE CRANES, pneumatics, Jibs up to 50ft.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Tel.: VICtoria 0252.

FOR SALE, new 8cwt. Green's Griffin Vibratory ROLLERS Immediate delivery from stock.—WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

OSBORNE 3in. PUMPS, Lister Petrol or Diesel Engines, overhauled and in excellent order. W. V. DAVIES, Shipston-on-Stour. 'Phone 125.

FOR SALE, F2 Syntron FEEDER. — B.G. PLANT (SALES AGENCY), LTD., Watlington, Oxon. Watlington 44.

URGENTLY REQUIRED, SHEET STEEL PILING, any quantity and length considered. Write Box G.G.393, "The Contract Journal."

FOR SALE
Lima 2400 EXCAVATORS, with Dragline and Forward Shovel. Choice of four.
Marion 111M EXCAVATORS. Choice of two.
Lima 1201 EXCAVATORS. Choice of two.
Ruston 100B EXCAVATOR, Diesel/Electric.
All machines in excellent condition, may be seen working, and are open to any inspection and trial. Immed. delivery.
Call, write or 'phone:
A.R.C. MOTOR CO., LTD.,
Redhill Works, Arnold, Nottingham. Tel. 26-3331/5.

MOBILE COMPRESSORS
FOR HIRE
Telephone: AMBassador 3456.
ACROW (ENGINEERS), LTD.,
8 South Wharf, London, W.2.

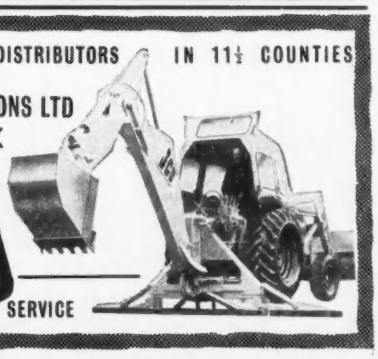
FOR HIRE
CONTRACTORS' PLANT AND LOW LOADING VEHICLES OF ALL TYPES AND SIZES
A.E.FARR (Plant Hire) LTD
WESTBURY · WILTS · Tel: 356 (5 lines)

NEAL'S (PLANT HIRE) LTD
SERVE THE SOUTH
Immediately available for hire on the South Coast:—
Excavators, Tracto-Shovels, Mobile Compressors, Fergusons, Mobile Cranes, 10 BD 3 c.y. Diesel Dumpers, Petrol and Diesel Rollers, Concrete Mixers, etc., etc.
All enquiries promptly dealt with
Phone - - Chichester 3777-8-9

ABELSON
BRICK CAGES
Capable of moving 5,000 to 6,000 bricks an hour

Prices and details from:
ABELSON & CO., (ENGINEERS) LTD.
SHELDON · BIRMINGHAM 26
Phone: SHEldon 2424 (10 lines)
Grams: ABELSON, BIRMINGHAM
ALSO AT LONDON & MANCHESTER

Ernest Doe AND SONS LTD
SOLE DISTRIBUTORS IN 11½ COUNTIES
ULTING MALDON ESSEX
Telephone:
HATFIELD PEVEREL 311
(Night 319)
TRADE SUPPLIED
SALES SPARES SERVICE
JCB



MOORE'S VIBRATING ROLLER HIRE
6¾ cwt. to 30 cwt.
Tel: TOTtenham 0401 (10 lines)

A Pretty Load

and attractive—
so is our
Service!

PLANT HIRE
all types of Contractors' Plant

SALES
Liner-Spares: Sales and Repairs Service

Phone
POTTERS BAR 3752

SOUTHERN PLANT SERVICES LTD.

MIMMS HALL ROAD, POTTERS BAR, MIDDLESEX

THE BREAKER TO CUT YOUR COSTS!

Write for full details.

For long life, high performance and low-cost operation, "BROOMWADE" pneumatic breakers are unsurpassed.

The RB440, shown here, is a medium duty concrete breaker with **air consumption below 50 cu. ft. per minute.** Patented cushioning reduces operator fatigue to an absolute minimum — there is no back-kick. The breaker has a highpower/weight ratio and delivers 1200 blows per minute. Of simple design and rugged construction, it cuts costs on all the jobs for which it is designed.

"BROOMWADE"

AIR COMPRESSORS & PNEUMATIC TOOLS

Your Best Investment

BROOM & WADE LTD · P.O. BOX No. 7 · HIGH WYCOMBE · ENGLAND

Telephone: High Wycombe 1630 (10 lines) *Telegrams: "Broom", High Wycombe (Telex)*

617 SAS

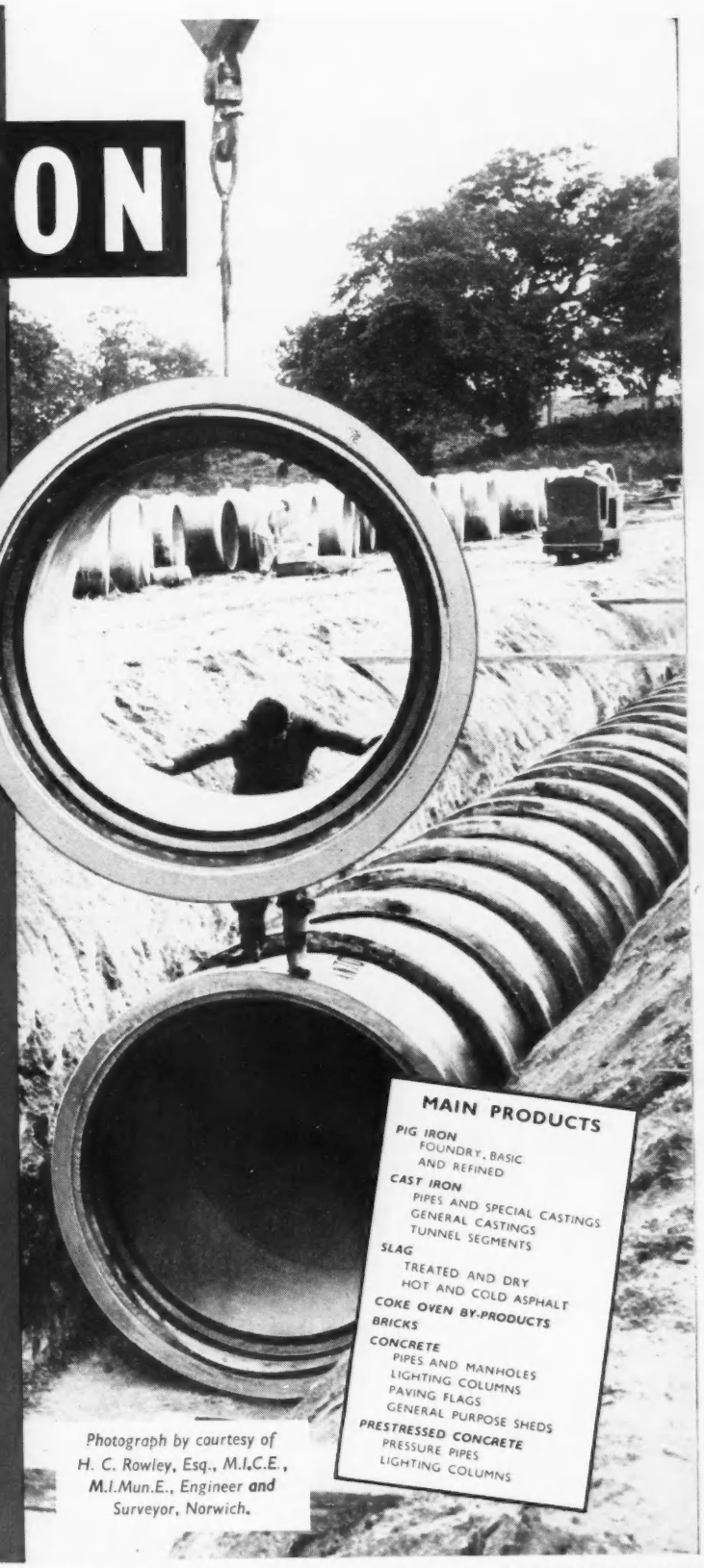
STANTON

THICK WALL CONCRETE PIPES

For upwards of 10 years the Stanton Company has supplied specially designed Thick Wall Concrete Pipes to dispense with the use of in situ concrete support, so reducing laying costs.

We have perfected a design technique which enables Stanton Thick Wall Concrete Pipes to be safely laid at greater depths with complete safety.

For further information Telephone Ilkeston 86 Extension 250, or write to Concrete Pipe Sales Dept., at Stanton.



Photograph by courtesy of H. C. Rowley, Esq., M.I.C.E., M.I.Mun.E., Engineer and Surveyor, Norwich.

MAIN PRODUCTS

PIG IRON
- FOUNDRY, BASIC AND REFINED

CAST IRON
- PIPES AND SPECIAL CASTINGS
- GENERAL CASTINGS
- TUNNEL SEGMENTS

SLAG
- TREATED AND DRY
- HOT AND COLD ASPHALT

COKE OVEN BY-PRODUCTS

BRICKS

CONCRETE
- PIPES AND MANHOLES
- LIGHTING COLUMNS
- PAVING FLAGS
- GENERAL PURPOSE SHEDS

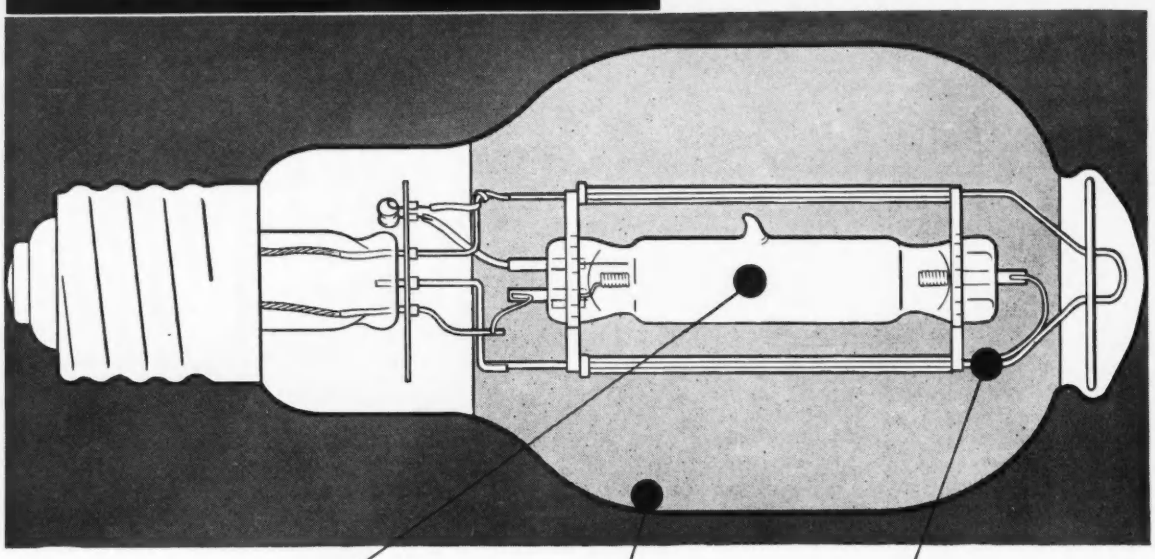
PRESTRESSED CONCRETE
- PRESSURE PIPES
- LIGHTING COLUMNS

THE STANTON IRONWORKS COMPANY LIMITED NEAR NOTTINGHAM

MORE LIGHT AND BETTER COLOUR TOO

Osram

Colour Corrected Mercury Lamps



These are the lamps that are now finding their way into more and more street lighting units. Increasingly specified for installations where colour rendering is important, they are also being used in many new applications such as high bay lighting units in factories. Here are some facts about their performance:

New mechanised techniques in arc tube manufacture ensure peak performance, uniformly high quality and maximum reliability.

New phosphors, coated to carefully controlled thickness limits, help provide brighter street and factory lighting—very close to actual daylight conditions.

Redesigned arc tube assembly means extra-rugged construction to withstand vibration and shock.

	Rating (Watts)	Average light output during first 5,000 hours of life (lumens).
Efficiencies—Type MBF	80	2,600
	125	4,600
	250	10,000
	400	17,500
	1000	50,000

Osram adds life to your lighting

THE GENERAL ELECTRIC CO. LTD, MAGNET HOUSE, KINGSWAY, LONDON W.C.2

NEWS!

FRED MYERS LTD. appoint

MOORE'S

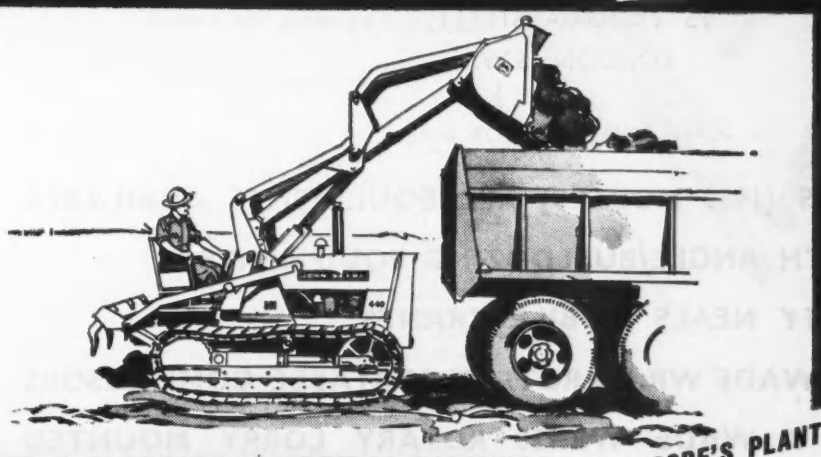
Main N.& E.LONDON Distributors for

JOHN DEERE/LANZ

(OVER 40 YEARS OF QUALITY TRACTOR MANUFACTURE.)

440 CRAWLER

NOW INCLUDES THE TIME-SAVING *NEW* DIRECTION REVERSER.



- ⅞ CU. YD. BUCKET.
- 10' DUMP HEIGHT.
- 5 ROLLER TRACK FRAME ASSEMBLY.
- LOW FUEL COSTS.
- QUALITY CONSTRUCTED.

MOORE'S PLANT INVITE YOU

to enquire for illustrated leaflets, price lists, and free demonstration.
831 Loader and 831A Scarifier. 51 Backhoe Trencher, two lever control and five positions. 602 Bulldozer and 24 Scarifier.
300 Side Boom. Log Loader, etc.
After Sales Service and Spares—

Tel: TOTtenham 0401 (10 Lines)

MOORE'S PLANT LTD

105-129 MARKFIELD ROAD, TOTTENHAM, LONDON, N.15. Grams 'MORPLANLIM,' SOUTHTOT, LONDON.

dm.MO141

WHITLOCK
DINKUM DIGGER
MAJOR

ESSEX
DISTRIBUTORS

SYMES
(PLANT SALES) LTD
BRENTWOOD · ESSEX
Telephone BRENTWOOD 2116 (5 lines)

Plug-in electric power anywhere, anytime!

ONAN portable Electric Plants

Series 205AJ (shown) 2,500 watts A.C. Single-cylinder, air-cooled engine. Available with dolly as shown, carrying frame or plain base.

You can take an Onan Electric Plant to any spot where you need cost-cutting, time-saving electric power. Plug in to the receptacle box for lights, and power for electric saws, drills, grinders and other equipment. Recoil starter, receptacle box with pilot light, and mounted gas tank are standard equipment on many models.

Available with 2-wheel dolly as shown or with handy carrying frame. Portable models with Onan air-cooled engines range from 500 to 10,000 watts A.C. Water-cooled plants from 10 to 75KW. Portable D.C. models also available.

G.M. POWER PLANT CO. LTD.

DEPT. F, 1-3 RICHMOND ROAD, IPSWICH, SUFFOLK Tel: IPSWICH 61795/6

METAL UNION (PLANT) LTD.,
75 VICTORIA STREET,
LONDON, S.W.1

PLANT AVAILABLE FOR HIRE

22RB EXCAVATORS (1959 MODELS) ALL EQUIPMENTS AVAILABLE

D4 TRACTORS WITH ANGLE/BULLDOZING EQUIPMENTS

2-6 TON CAPACITY NEALS MOBILE CRANES

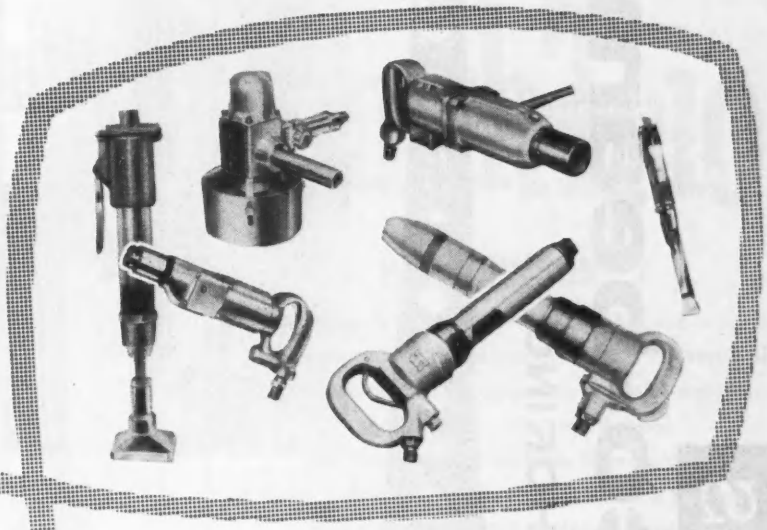
2 TOOL BROOM & WADE WR.120 ROTARY PORTABLE COMPRESSORS

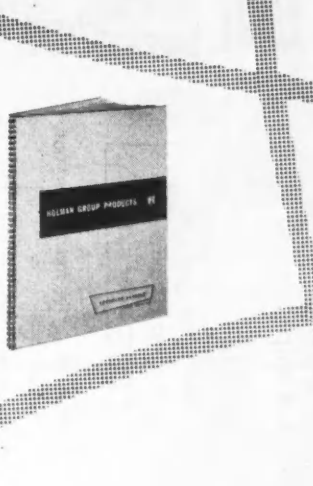
2 TOOL BROOM & WADE WR.120 ROTARY LORRY MOUNTED COMPRESSORS

3¼, 4¼, 6½, 10, 16, 21, 33 and 75 cwt. STOTHERT & PITT VIBRATING ROLLERS

We can also offer a comprehensive range of all Contractors Plant for Hire or Sale.

TELEPHONE ENQUIRIES TO VICTORIA 4868/9—2177/8—7429





Does air power it?

Then Holman make it

Now what's the best tool for *this* job, you ask. Pneumatic? Yes. Holman? Undoubtedly. Ah, but do Holman *make* it?

They do. Holman make pneumatic equipment for every project. There's hardly a job-need anywhere they don't know about—and deal with. Mining, shipping, construction—wherever tough, fast-working tools can get down to the job and cut down the costs.

Take your choice — from the widest range of air compressors and pneumatic tools in the Commonwealth.

The most reliable in the world.

Write now for Catalogue 19/G.P.1.

Air... compressed air... **power**... **Holman**

Holman Bros. Ltd., Camborne, England; Camborne 2275 and 44 Brook Street, London W.1; Hyde Park 9444.
Also in Birmingham · Cardiff · Glasgow · Peterborough · Sheffield. Australia · Canada · East Africa · France
India · South Africa · Spain · U.S.A. · West Africa. . With Agents and Representatives throughout the world.

HM16

THE NEW **MILLS**

LIGHTWEIGHT **pecco-beam**

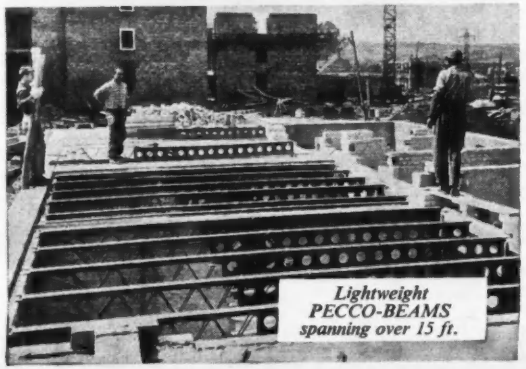
ALL-STEEL HORIZONTAL SHORING

GIVES CLEAR SPANS FROM 9′ 6″ TO 21′ 2″

- PROVEN SAFETY FACTOR: minimum of 2:1
- Only two basic parts—easy to erect, store and transport
- No propping—kindred trades can work freely below
- Keeps costs down. High load capacity enables larger areas to be shuttered with fewer shores
- Rolled-in camber ensures level slab under load
- Demonstrations arranged
- Immediate delivery from nearest MILLS depot
- Free planning service

For larger spans and greater load-bearing capacity, use the Standard pecco-beam

Unique wedge-lock secures span at one stroke.



Lightweight PECCO-BEAMS spanning over 15 ft.

For leaflets containing loading tables and full details of Lightweight and Standard PECCO-BEAMS get in touch with your nearest Mills depot.

MILLS SCAFFOLD CO. LTD. *(A subsidiary of Guest, Keen & Nettlefolds, Ltd.)*

Head Office: Trussley Works, Hammersmith Grove, London W.6 (Riverside 3011)

Depots: BIRMINGHAM · BOURNEMOUTH · BRADFORD · BRIGHTON · BRISTOL · CANTERBURY · CARDIFF · COVENTRY · CROYDON · GLASGOW HASTINGS · HULL · ILFORD · LIVERPOOL · LONDON · MANCHESTER · MIDDLESBROUGH · NEWCASTLE · NOTTINGHAM · OXFORD · PLYMOUTH PORTSMOUTH · PRESTON · READING · ROTHERHAM · SOUTHAMPTON · SWANSEA

THERE'S NO LIMIT TO THE SUPPORT YOU CAN GET FROM MILLS

Tough Trio

DIESEL DUMPERS

BY JOHNSON

Bringing the famous Johnson reliability and performance to the dumper field is the result of years of research and development. Powerful engines, handy-height skips, multi-speed gear boxes, simple controls, steering that is almost unbreakable—all these features are combined to give you go-anywhere dumpers whose rugged construction ensures years of trouble-free service.

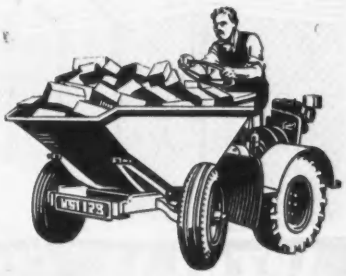
We would be happy to demonstrate any of these dumpers on your site without obligation.

ONE/TWENTY

Articulated Chassis
Rear Wheel Drive

CAPACITY

Struck capacity 18 cu. t., 1 ton, self tipping and self returning skip. Loading height (front lip) 39"

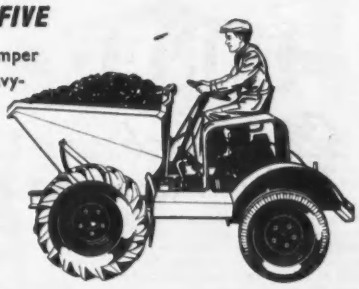


ONE/THIRTY-FIVE

A reliable small dumper which excels in heavy-duty performance

CAPACITY

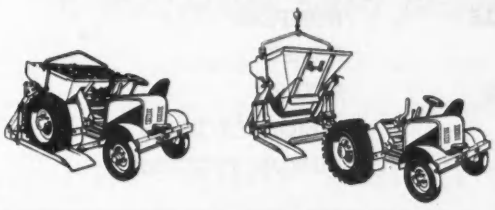
Struck capacity—20 cu. ft.
Heaped capacity—at 25°—27 cu. ft.
Water level—16 cu. ft.



TWIN/SIXTY-FIVE The only dumper in its class with a 3¼ ton drive axle (Makers Rating).

CAPACITY: 35 cu. ft. struck, 40 cu. ft. heaped.

JOHNSON TRIP-SKIP BRINGS YOU AUTOMATIC MULTI-SKIP HANDLING WITH STANDARD JOHNSON DUMPERS



This new Johnson unit solves many site problems, such as speeding the transportation of materials as various as concrete, bricks, spoil or rubble either into or outside the crane's operating radius.

★ Service and spares within 24 hours

JOHNSON QUALITY PAYS

C. H. JOHNSON (MACHINERY) LIMITED
STOCKPORT · CHESHIRE

Telephone: Stockport 2642/5. Telex: 66-297. Telegrams: "Machinery," Stockport.

London Sales and Service Depot:
38/44 Lower Richmond Road, London, S.W.14. Telephone: PROspect 7071.

Scottish Sales and Service Depot:
55 Arrowsmith Avenue, Glasgow, W.3. Telephone: Scotstoun 6933.

Sole U.K. Distributors for A.B.G. road making machinery.

BUSES AND COACHES

SUITABLE FOR CONVEYANCE OF STAFF

29 Seater Petrol Engine Coaches from **£95**
33/35 Seater Diesel Engine Coaches from **£125**
Buses for Mobile Canteens & Offices from **£35**

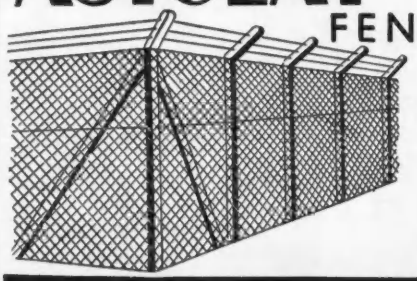
PLEASE LET US HAVE YOUR ENQUIRIES

KIRKBY & SONS (SALES) LTD.

CROSS ROADS GARAGE, SOUTH ANSTON, NR SHEFFIELD

Telephone: DINNINGTON 541 (4 lines)

ASTOLAT CONCRETE & WIRE FENCING



ALL TYPES SUPPLIED AND ERECTED

ASTOLAT CO. LTD.

19 PEASMARSH · GUILDFORD . SURREY

Telephone: Guildford 5211

S. LLOYD & Co.

WILTON GARDENS · ROTHERHAM
Telephone - - - - ROTHERHAM 2425

GRADED CLINKER ASHES

FILTER MEDIA

DELIVERIES BY ROAD & RAIL

LINER

Slab Block and Brick Machine

Makes Plain Slabs, Grooved, or Tongued and Grooved Slabs, Frogged or Plain Bricks, Rock Faced and other Building Blocks. Hand Tamping unnecessary. Fast in operation. Needs only wood pallets. Write for Illustrated Brochure.

HIRE PURCHASE TERMS—
ONLY 10% DEPOSIT

The LINER CONCRETE MACHINERY Co. Ltd.
89 Park Road, Gateshead, 8

Phone: 72501 (10 lines) *Grams: "Liner, Gateshead"*

MUCKYPUMPS

made by the Greenwich Pump & Plant Co. Ltd.
for

DANDRIDGE'S of GREENWICH

WOOLWICH ROAD, GREENWICH, S.E.10

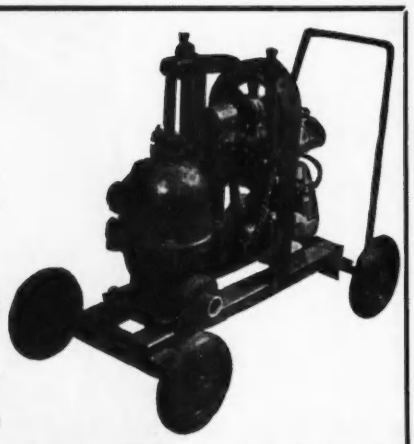
Specialists in Plant Sale or Hire - - Spares and Repairs

SELF-PRIMING PUMPS THAT REALLY PUMP MUCK

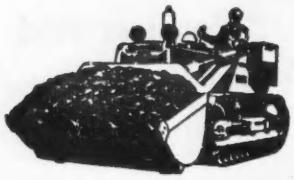
Simple Orthodox Design at Most Competitive Prices.

Approved and used by National Coal Board, Government Departments, Builders, Engineers & Contractors, etc.

PETROL, DIESEL, ELECTRIC, BELT & P.T.O. drives. GREENWICH 3188-9



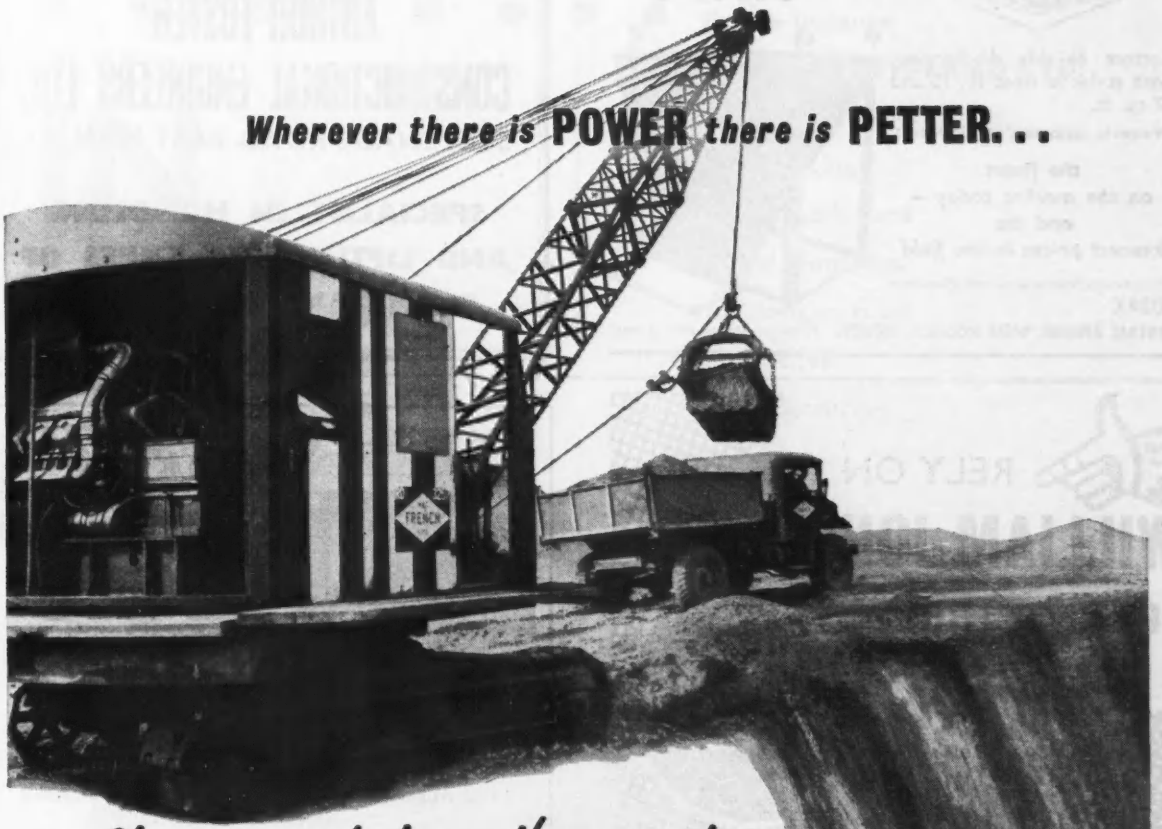
JOHNSTONS FOR PLANT HIRE



DROTT SKID SHOVELS
EXCAVATORS
VIBRATORY ROLLERS
COMPRESSORS
MOBILE CRANES
DUMPERS
PUMPS
MIXERS
WEIGHBATCHERS
DINKUM DIGGERS

Tel. SHEPHERDS BUSH 6941/3

J. J. JOHNSTON & COMPANY LTD.,
271 Uxbridge Road, London, W.12



on sites up and down the country

PETTER AIR-COOLED DIESELS TACKLE THE TOUGHEST JOBS–with reliability and economy

POWER for this excavator owned by W. C. French Ltd., which shifts 500 to 600 cubic yards of ballast in an average day, is supplied by a Petter PDV6 aircooled diesel engine of 78 b.h.p. at 1,800 rev./min. This unit is robust, reliable, runs with the maximum economy, and is one of the larger engines in the range of 1½ to 108 b.h.p. supplied everywhere by Petter for dumpers, excavators, batching plant, building and contracting equipment of all kinds. Every engine is thoroughly tested before delivery and is backed by outstanding spares and maintenance service. Over 40 service engineers, resident throughout the country, are available to give any assistance required in the field; each is equipped with a service van and all spares likely to be required.

Prospective power users are invited to ask our Technical Department for advice. In every way, you can rely on PETTER.

it goes much better powered by **PETTER**

SUPPLIED IN ALL RATINGS FROM 1½-108 b.h.p.

ALSO WATER-COOLED DIESELS FROM 3-48 b.h.p.

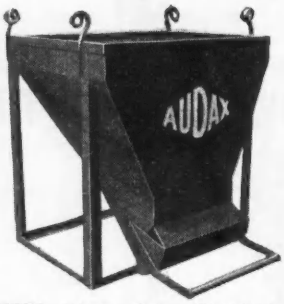
Petter

PETTERS LTD · STAINES · MIDDLESEX Tel: Staines 51333 A MEMBER OF THE HAWKER SIDDELEY GROUP

CPH/29/12

AUDAX

POURING SKIPS



Bottom or side discharging, both styles in sizes 10, 15 and 27 cu. ft.

Or sizes to customers' requirements.

the finest on the market today— and the keenest prices in the field

Full particulars from the actual manufacturers:

AUDAX

CENTRAL AVENUE, WEST MOLESEY, SURREY. *Telephone: Molesey 6071 (5 lines).*

Telephone: GRA 3401-3

ARTHUR FOSTER CONSTRUCTIONAL ENGINEERS LTD.

STEVENAGE ROAD, EAST HAM, E.6

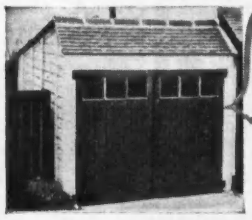
SPECIALIST IN HANDLING AND LIFTING ALL TYPES OF PLANT AND MACHINERY

RELY ON

WILLIAM JONES LTD.

PLANT HIRE SERVICE

EUS 7871
7 LINES



LOOKING *for Economy?*

What do you want in a Garage? Weather protection, ease of access, good appearance, years of trouble-free service. If you get all these at low cost—that's true economy!

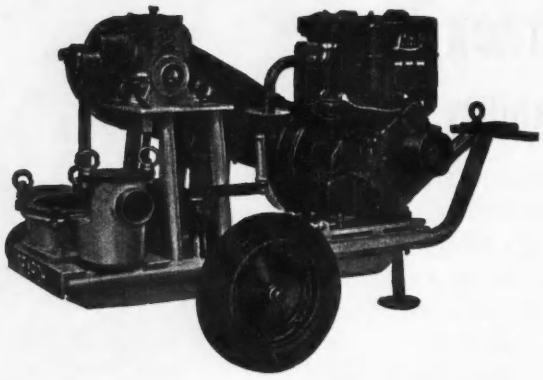
Alborough Prefabricated Concrete Garages are the perfect housing for cars. They're constructed in portable sections for erection on site, thus saving days of building labour. Absolutely weathertight, they combine compactness with good appearance, and are built to outlast the cars they house and protect. Remember, too, that **Alborough** give Complete Erection and Foundation Service within 75 miles of London.

No finer buy than **Alborough**

A.B.C.D. (Raynes Park) LTD.

34/35 ALPHA ROAD · SURBITON · SURREY

Telephone: ELMbridge 6591/3



SEARCH MUD MARVEL

Lift and Force

3 in. DIAPHRAGM PUMP

Handles Water, Mud, Sludge, Sewage, Tannery and other industrial waste. Non-clogging ball valves; fully guarded V belt drive; Strong Tubular Frame. Lister petrol or diesel engine. Designed for continuous operation.

WILLIAM G. SEARCH LIMITED

WHITEHALL RD. LEEDS 12 Tel: LEEDS 639081 (10 lines)

MODERN FLEET OF CONTRACTORS PLANT NOW AVAILABLE FOR HIRE IN THE LONDON AREA!

JACK BRANCH (LONDON)

OFFICE:
293 BALLARDS LANE · FINCHLEY · N.12
Phone: HILLside 5068-9
Plant Manager: Mr. E. G. H. Parnell

CAMBRIDGE OFFICE:
Phone WATERBEACH 57

ROYSTON OFFICE: Phone: ROYSTON 3007

WARRINGTON
Phone: PENKETH 2095

FIRST . . . IN THE FIELD

first — because
SLATER & ENGLAND LTD.
have been designing
and making
One Cubic-yard
diesel dumpers
for longer than
any other
manufacturer!

THE MODEL SHOWN IS THE MARK 8
CAPACITY: PAYLOAD WEIGHT 22½ cwt.
STRUCK LEVEL 27 cu. ft.

By permission of Messrs. William Old Limited

The CONGREVE range of DIESEL DUMPERS

Please Write or Phone the Distributors for Free Demonstration Loan

DISTRIBUTORS: **KEBRIC PLANT LTD.**

2 to 6 THE MEAD, CARPENDERS PARK, WATFORD, HERTS.
Phone: HATch End 6221/3

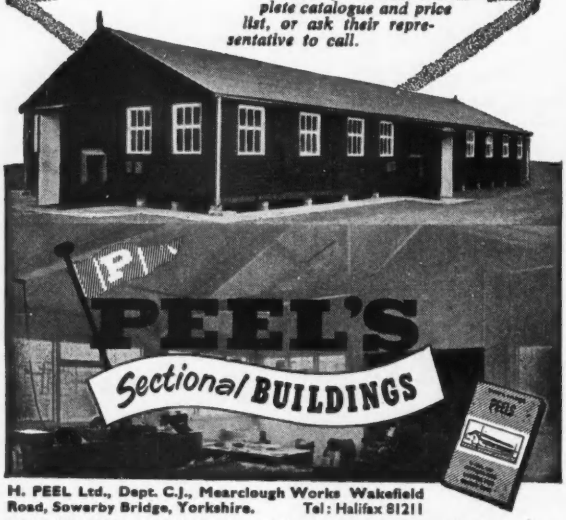
SALES & SERVICE AGENTS
in most areas!

built in hours to last for years!

Peel's sectional buildings are the **permanent** answer to your accommodation problems. There's a tremendous range — for schools, offices, workshops, storerooms, canteens, hostels, pavilions, libraries, estate offices, etc. —all soundly constructed from well-seasoned timber.

- Easy to erect.
- New timber throughout.
- Range of designs.
- Individually designed, if required.
- FREE DELIVERY within 200 miles radius.

Send for PEEL'S complete catalogue and price list, or ask their representative to call.



H. PEEL Ltd., Dept. C.J., Mearclough Works Wakefield Road, Sowerby Bridge, Yorkshire. Tel: Halifax 81211

SOUTHERN AREA AGENT: Airflow (Watford) Ltd., Oxhey Lane, Watford, Herts. Phone: 21579

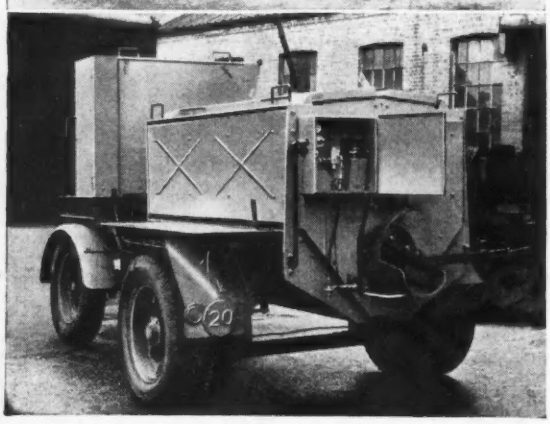
2863C

Suppliers in SOUTH WALES for the **WHITLOCK**

DINKUM DIGGER MAJOR

O. L. DAVIES LTD

BAGLAN PLANT DEPOT
PORT TALBOT · GLAM
Tel: BRITON FERRY 3266 (2 lines)



Take a coke-fired cooker from your fleet—

Let us convert it

to a gas-fired cooker. That will cost you over £400 less than a new gas-fired cooker. You will save enough on the use of the converted equipment to make you consider whether you will have more conversions. They pay by the money they save in hourly running costs. By cheapening your work they increase profit margins.

Write to us now for full details, time and cost.

BRAHAM, PATTERSON & BENHAM, Ltd.

STRAYSFIELD WORKS
CLAY HILL · ENFIELD · MIDDLESEX
Telephone: Enfield 6622 (4 lines)

BULK EXCAVATION

problems solved!

Our MODERN FLEET OF EXCAVATION PLANT

Including 7½ cubic yard shovels, 22 ton Euclids and Rubber Tyred Scrapers is capable of a high weekly output. We welcome enquiries from contractors engaged on Major Road Contracts and other work offering

BULK EXCAVATION

Consult

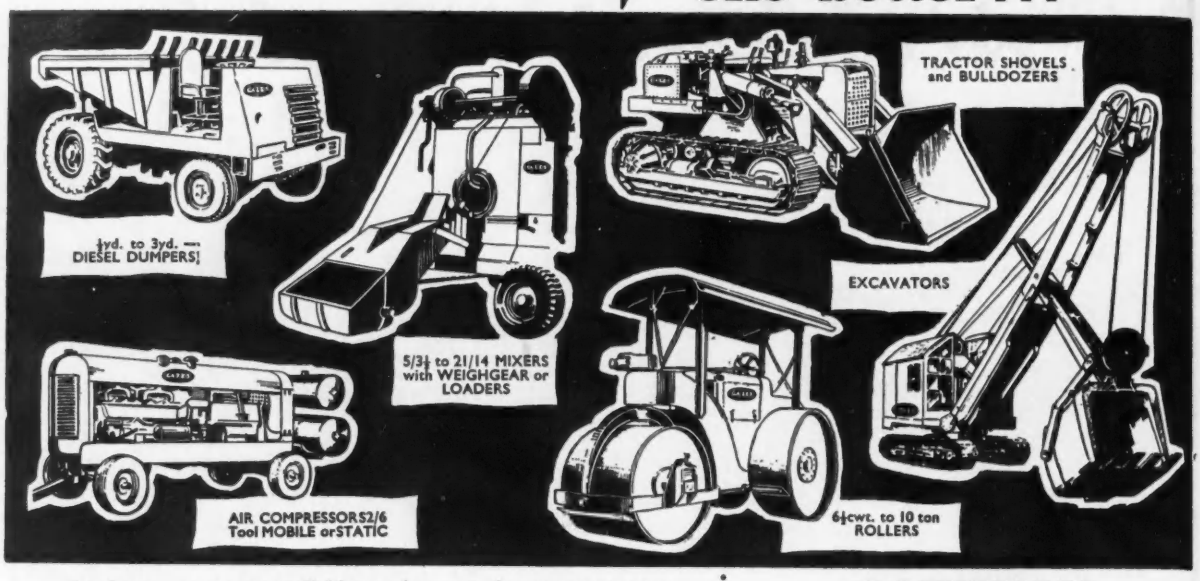
MARTIN COWLEY LTD
CLAY CROSS • DERBYSHIRE
Telephone • 2291 (5 lines)

London Office:
112 JERMYN ST. LONDON, S.W.1.
Telephone: WHITEHALL 3282 (3 Lines)

Building and Civil Engineering Contractors

Gazeway

The Plant Hire Service that goes one better...



At Gazeway we are available 24 hours a day to meet your requirements, so remember — whatever plant or equipment you need to buy or hire, *contact Gazeway first.*

TODAY'S WAY IS THE GAZEWAY

See our advertisement on the classified Plant pages

GAZEWAY PLANT HIRE LIMITED

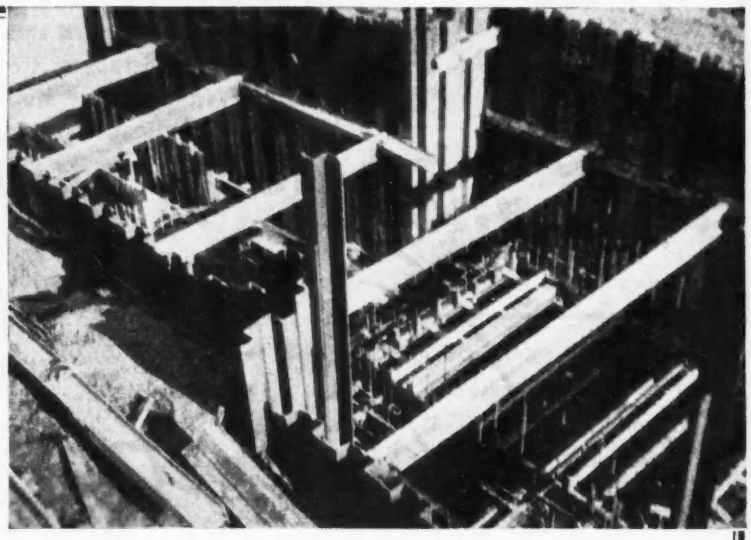
One of the GAZE Group of Companies

Portsmouth Road, Thames Ditton, Surrey. Telephone: EMBerbrook 5511 & 6147 (Night 6147)

SUBLET YOUR

STEEL SHEET PILING

TO



W. A. DAWSON LTD.

SPECIALIST EQUIPMENT FOR ALL SIZES ON CONTRACT

SUNDON PARK, LUTON LUTON 52203

Bedford No. 1 British truck the world over

Bedford No. 1 British truck the world over
50,000 Bedford trucks built in 1959

Bedford No. 1 British truck the world over
Highest-ever sales in 1959

Bedford No. 1 British truck the world over
4 in 10 new British trucks are Bedfords

A great year, 1959, for the British Motor Industry. And right out in front, leading the leaders, is Bedford . . . . more firmly established than ever before as No. 1 British truck the world over.

Bedford's success is based on leadership in design, leadership in value-for-money, and leadership in service-after-sales. No wonder 400,000 Bedford trucks were sold in the nineteen-fifties alone !

The Bedford truck range is carefully graded to cover every load from 25 cwt. to 12 tons, with diesel or petrol power. See your local Bedford dealer. He'll be glad to recommend the Bedford best suited to *your* job.

50,000 Bedford trucks built in 1959. A truck production record never achieved before by any British manufacturer.

***Highest-ever truck sales in 1959.** Latest figures for 1959 show that, while British truck production increased overall by 31%, *Bedford* production increased by 63%!

***4 in 10 new British trucks are Bedfords.** Latest figures for 1959 show that 39.9% of all new trucks built in Britain were Bedfords.

30,000 Bedford DIESEL trucks built in 1959. Diesel-engined models accounted for 60% of Bedford's 1959 production record.

On all counts Bedford sweeps the board . . . 43% of all buses and coaches registered in the 27/48 str. class were Bedfords. And Britain's best-selling light van comes from the Bedford stable too.
Bedford van sales rose by 55% in 1959.

**Based on latest available Board of Trade statistics for first nine months of 1959, compared with Bedford production for the same period.*

Better buy Bedford

Vauxhall Motors Ltd., Luton, Bedfordshire.

EARTH

SIMMS
SONS & COOKE LTD

BY CONTRACT

YARDAGE BASIS. PLANT HIRE WITH OPERATORS

SUB-CONTRACT

LIMAS 1201 DRAGLINE WITH FACE SHOVEL EQUIPMENT TD24, 20 & 18 BULLDOZERS

D TYPE TOURNAPULLS—54, 22 & 19RB EXCAVATORS WITH FACE SHOVEL EQUIPMENT

D8 TRACTORS & SCRAPERS & SUITABLE BULLDOZER EQUIPMENT

MOVING

W. J. SIMMS, SONS & COOKE LTD., EXCAVATION DEPT., HAYDN ROAD, NOTTINGHAM
CABLES CONTRACTS. NOTTINGHAM 66264 (Ten Lines)

LAFARGE ADD TO THEIR RANGE
OF SPECIAL CEMENTS-

FRODINGHAM

THE BRITISH MADE

SUPER-SULPHATED CEMENT

for Safe concrete in Aggressive Conditions

BRITISH MADE

FRODINGHAM

SUPER SULPHATED

CEMENT

TRADE MARK

HIGHLY RESISTANT TO SULPHATES
As recommended for Class III conditions in B.R.S. Digest No. 31

HIGHLY RESISTANT TO MANY ACIDIC CONDITIONS

HIGHLY IMPERMEABLE

A LOW-HEAT CEMENT PARTICULARLY SUITED TO MASS CONCRETE WORK

BRITISH MADE, THEREFORE COMPETITIVE IN PRICE

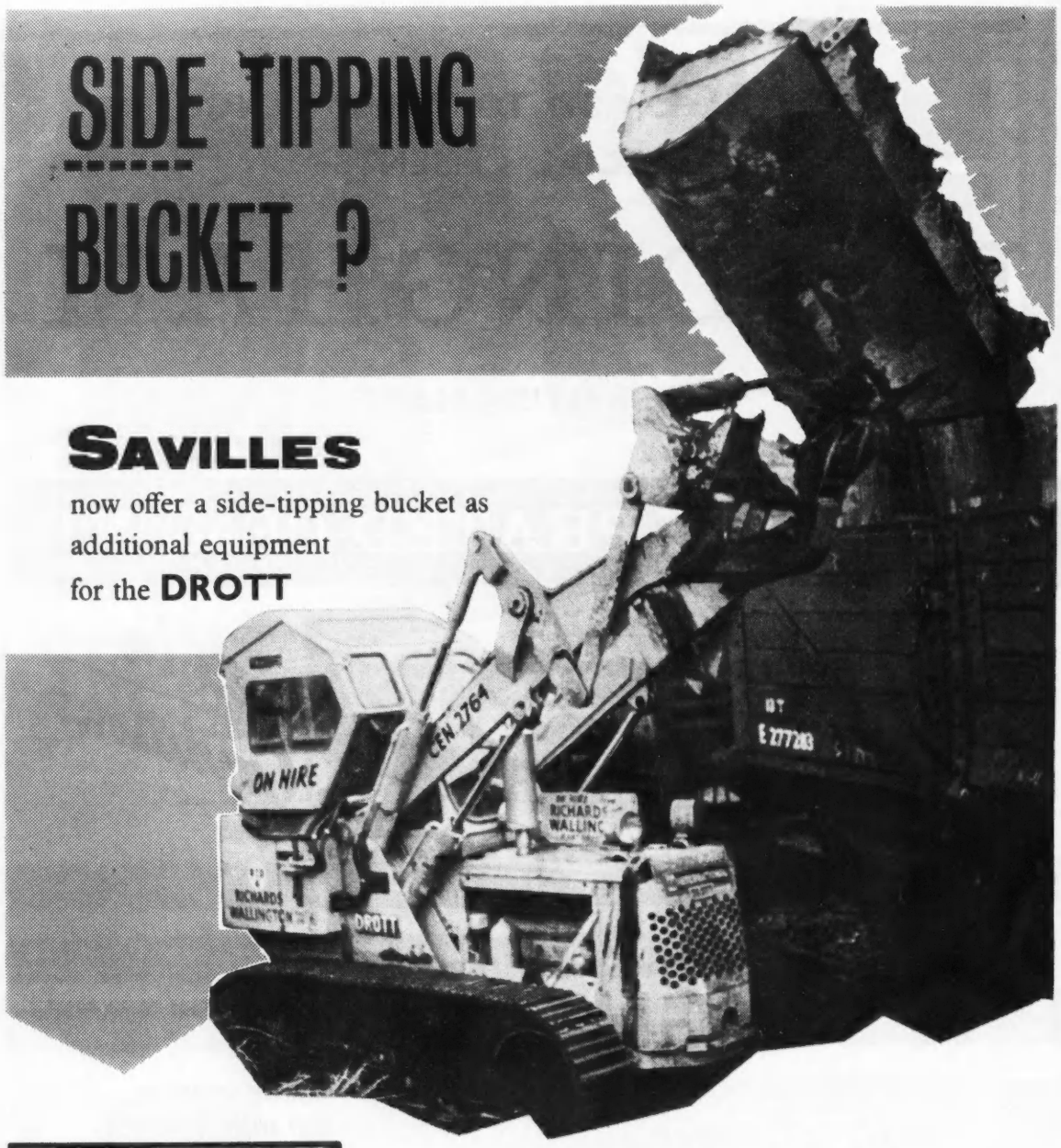
CONSISTENT IN QUALITY

Further information from ***Main Distributors:-***
LAFARGE ALUMINOUS CEMENT CO. LTD
73 BROOK STREET, LONDON W.1. MAYFAIR 8546

Frodingham Super-Sulphated Cement is manufactured and also sold by:-
FRODINGHAM CEMENT COMPANY
SCUNTHORPE, LINCS. SCUNTHORPE 5337/8

AP 108

SIDE TIPPING BUCKET ?



SAVILLES
now offer a side-tipping bucket as additional equipment for the **DROTT**

BUCKET CAPACITY
1 cubic yard 77″ or 87″ wide. Interchangeable with the Drott 4 in 1 bucket in a matter of *minutes*.

Published by courtesy of
British Railways
Richards and Wallington Ltd., Contractors

Ask for full details & demonstration

SAVILLE
(TRACTORS) LIMITED

A Company of the LUMLEY-SAVILLE Organisation.

STRATFORD-ON-AVON
Telephone: 4242 (15 lines)
Telex. Birmingham 31633

LONDON
Tel: ASHFORD (Middx.) 4191 (10 lines)
Telex. London 24117

CARDIFF
Tel: CARDIFF 33572/3
Telex. Cardiff 49250

BELFAST Telephone: DUNMURRY 2511 (4 lines)

IRELAND: *Sole Distributors for INTERNATIONAL HARVESTER, J. H. SAVILLE & CO. LTD. Tel: DUBLIN 373606 (5 lines)*

CONTRACTS

BUCKS. COUNTY COUNCIL.

THE HIGHWAYS ACT, 1959—THE CODE OF 1892.

LATCHMOOR WAY, CHALFONT ST. PETER.

TENDERS are invited for the MAKING-UP of the ABOVE STREET.

Specification, Form of Tender and Contract and Bill of Quantities may be obtained from the County Surveyor, County Offices, Aylesbury.

Applications must be accompanied by a remittance for £2, which will be refunded on receipt of a bona-fide Tender.

Sealed Tenders must be delivered to the undersigned by MONDAY, 15th February, 1960, in the envelope provided, endorsed "Private Street Works," but not bearing any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

R. E. MILLARD,
Clerk of the Bucks. County Council.

County Hall,
Aylesbury.
January, 1960.

COUNTY BOROUGH OF DONCASTER.

HIGHWAYS CONTRACT NO. 53.

RECONSTRUCTION OF A.1 BAWTRY ROAD.

TENDERS are invited for the WIDENING and RECONSTRUCTION of the ABOVE ROAD between ALSTON ROAD and the BOROUGH BOUNDARY, a length of approx. 1,400yd.

The proposed works comprise the Laying of 700 lin. yd. 6in. dia. Salt Glazed Ware Surface Water Sewers; 1,100 lin. yd. 9in. dia. and 430 lin. yd. 12in. dia. Concrete Surface Water Sewers; 2,900 lin yd 5in. x 10in. P.C.C. Kerbs; 3,300 lin. yd. 6in. x 6in. P.C.C. Channels; 4,700 lin. yd. 2in. x 6in. P.C.C. Edging; 11,250 sq. yd. Bitumen Macadam Regulating Course to Existing Carriageway, and 6,300 sq. yd. Construction of Lean Concrete Foundation and Bitumen Macadam Base Course, together with Footpath Works, Manholes, Gullies, Gully Connections, and other ancillary works.

Form of Tender, Specification and Bills of Quantities may be obtained on payment of a deposit of £3 3s., refunded on receipt of a bona-fide Tender, from the Borough Surveyor, 2 Priory Place, Doncaster, at whose Office the Plans and Conditions of Contract may be inspected.

Tenders are to be received at the Office of the undersigned not later than 10 a.m. on MONDAY, 15th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

H. R. WORMALD,
Town Clerk.

1 Priory Place,
Doncaster.

CITY OF CARDIFF.

LLANRUMNEY NO. 5 HOUSING SCHEME—ADVANCE PREPARATION WORKS.

FIXED - PRICE TENDERS are invited for LLANRUMNEY NO. 5—ADVANCE PREPARATION WORKS, comprising approx. 8,000 sq. yd. of Carriageway, 1,500yd. of 9in. and 6in. dia. F.W. and S.W. Sewers, and ancillary Works.

Conditions of Tender, Specification, Bills of Quantities and Drawings may be obtained from the City Surveyor, to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co."

The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Llanrumney No 5 Housing Scheme—Advance Preparation Works," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than FRIDAY, 19th February, 1960.

The envelope must not bear the name or any mark indicating the identity of the tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

20th January, 1960.

BARNET URBAN DISTRICT COUNCIL.

ANNUAL CONTRACTS.

The Council are prepared to receive TENDERS for contract for the year commencing 1st April, 1960, for the SUPPLY of the FOLLOWING:—

(1) Shingle, Concrete Ballast, Sand, Hoggin.
(2) Tarmacadam, Bituminous Topping, Fine Cold Asphalt.

Particulars and Form of Tender may be obtained on application to the Council's Engineer and Surveyor at Ravenscroft House, Wood Street, Barnet, on receipt of a stamped addressed envelope.

Tenders, suitably endorsed are to be delivered to the undersigned not later than 12 Noon on the 11th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ALFRED S. MAYS,
Clerk of the Council.

Municipal Offices,
Wood Street,
Barnet, Herts.
13th January, 1960.

WILMSLOW URBAN DISTRICT COUNCIL.

STYAL SEWERAGE—CONTRACT NO. 8.

The above Council invites TENDERS from experienced contractors for the CONSTRUCTION, on a Fixed-price Basis, of approx. Two Miles of SEWERS up to 15in. dia., together with Manholes and appurtenant works.

Contractors desirous of tendering may obtain copies of the General Conditions, Specification, Bill of Quantities and Form of Tender from the Offices of the Consulting Engineers, MESSRS. G. B. KERSHAW AND KAUFMAN, 82 Victoria Street, Westminster, S.W.1, upon deposit of Five Guineas (cheque made payable to the Urban District Council), which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Drawings may be inspected at the Offices of the Consulting Engineers, or at the Office of the Surveyor to the Council, Council Offices, Green Hall, Wilmslow, any day during ordinary office hours.

Tenders, endorsed "Styal Sewerage—Contract No. 8," in plain sealed envelopes not bearing any name or mark indicating the sender, must be delivered to the undersigned not later than Noon on WEDNESDAY, the 17th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. HERWALD MORRIS,
Clerk of the Council.

Council Offices,
Green Hall,
Wilmslow, Ches.
20th January, 1960.

CONTRACTS

COUNTY BOROUGH OF DEWSBURY.

MAIN DRAINAGE—OLD BANK ROAD.

TENDERS are invited for the CONSTRUCTION of approx. 309 lin. yd. of 9in. dia. and 337 lin. yd. of 12in. dia. SURFACE WATER SEWER in connection with the ABOVE

Plans and Conditions of Contract may be seen at and Specification, Bills of Quantities and Form of Tender obtained from, the Office of the Borough Engineer and Surveyor, Municipal Buildings, Halifax Road, Dewsbury, on payment of a deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender for Main Drainage—Old Bank Road," must be delivered to me by Noon on THURSDAY, 11th February, 1960

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
19th January, 1960.

BOROUGH OF CHELMSFORD.

WATER PIPES AND FITTINGS AT NEW CATTLE MARKET, VICTORIA ROAD.

TENDERS are invited for the SUPPLY and DELIVERY of CENTRIFUGALLY CAST (SPUN) IRON PIPES with Tyton Flexible Joints and Cast-iron Fittings with Screwed Gland Joints for Waterworks Purposes.

Forms of Tender may be obtained on application to the Borough Engineer, Municipal Offices, Chelmsford.

Tenders must be enclosed in the envelope provided, which should be appropriately endorsed but should not bear any name or mark indicating the sender. Such envelopes should be delivered to the undersigned not later than Noon on the 12th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. A. FRANCIS,
Town Clerk.

Municipal Offices,
Coval Lane,
Chelmsford.

BOROUGH OF MOSSLEY.

TENDERS are invited for the SUPPLY of the FOLLOWING ROAD MATERIALS during the year ending 31st March, 1961:—

(1) Gully Pots.
(2) Manhole Covers and Frames.
(3) Fine Cold Asphalt and Precoated Chippings.
(4) Bituminous Macadam.
(5) Screened and Unscreened Ashes.
(6) Concrete Flags.
(7) Concrete Kerbs.
(8) Concrete Aggregates (Coarse).
(9) Sand.
(10) Bitumen Emulsion.
(11) Coke.
(12) Dustbins.
(13) Paraffin.

Forms of Tender can be obtained from N. H. BOWDLER, Borough Surveyor, Town Hall, Mossley.

Tenders must be received by the undersigned in a plain sealed envelope, endorsed "Tender for ——," not later than Noon on MONDAY, 22nd February, 1960.

The Council do not bind themselves to accept the lowest or any Tender, and reserve the right to accept any part of any Tender.

V. C. PROCTER,
Town Clerk.

38 Manchester Road,
Mossley.

MAESTEG URBAN DISTRICT COUNCIL.

TENDERS FOR ANNUAL SUPPLIES.

The above-named Council invite TENDERS for the SUPPLY of the FOLLOWING MATERIALS for the year commencing 1st April, 1960, namely:—

(1) Cement.
(2) Brushes.
(3) Paints and Varnishes.
(4) Oils and Greases.
(5) Stoneware Pipes.
(6) Iron Castings.
(7) Bricks.
(8) Concrete Kerb and Channelling.
(9) Cold Emulsion for Road Spraying.
(10) Tarmacadam.
(11) Coal.
(12) Coke.
(13) Limestone Chippings.
(14) Granite Chippings.
(15) Sand.
(16) Surface Dressing for Roads.
(17) Petrol.
(18) Lorry Tyres and Tubes.
(19) Ironmongery.
(20) Plumbers' Fittings.
(21) Grate Parts.
(22) Electrical Fittings.
(23) Timber.
(24) Lorry Spares.
(25) Disinfectant Fluid (Bulk).
(26) Disinfectant Fluid (Small Tins).
(27) Liquid Insecticide.
(28) Gummed Rolls.
(29) Fumigating Outfits.
(30) Funeral Furnishing (National Assistance Act, 1948).

Conditions of Contract and Form of Tender may be obtained on application, as to Numbers (1) to (24) from Mr. LEWIS W. JONES, Engineer and Surveyor, Council Offices, Maesteg, Glam., and as to Numbers (25) to (30) from Mr. D. M. THOMAS, Chief Public Health Inspector, Health Department, Talbot Street, Maesteg, Glam.

Sealed Tenders, submitted separately, on the forms supplied, should be forwarded in a plain sealed envelope, endorsed "Tender for ——," and must be received by the undersigned not later than SATURDAY, 20th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender, and reserve the right to accept the whole or part of any Tender submitted.

T. KING-DAVIES,
Clerk of the Council.

Talbot Street,
Maesteg, Glam.

CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

SURFACE WATER SEWER—ELMSTEAD LANE, CHISLEHURST.

TENDERS are invited for the CONSTRUCTION of 200 lin. yd. of 12in. dia. SEWER, together with Manholes, and ancillary works.

Plans and Conditions of Contract may be inspected at the Office of the Engineer and Surveyor, Manor House, Sidcup, from whom Tender documents are obtainable upon payment of Two Guineas deposit, refundable upon receipt of a bona-fide Tender.

Tenders to the undersigned before 8th FEBRUARY, 1960.

T. W. FAGG,
Clerk of the Council.

Council Offices,
Sidcup Place,
Sidcup.

CONTRACTS

COUNTY BOROUGH OF HUDDERSFIELD.

LOCKWOOD SCAR—WIDENING AND RECONSTRUCTION OF SEWER.

TENDERS are invited for the ABOVE-MENTIONED WORKS, comprising:

(a) Reconstruction of the Existing Sewer, involving the Laying of 120 lin. yd. of 30in. to 45in. dia. Reinforced Concrete Pipes, 350 lin. yd. 21in. dia. Glazed Earthenware Pipes, and 120 lin. yd. of 12in. to 18in. Glazed Earthenware Pipes, and the Construction of One Stormwater Overflow, together with Manholes and other ancillary works.
(b) Reconstruction and Widening of ½-mile of Lockwood Scar, including Demolitions, New Kerbs and Flexible Foundations and Surfacing with Two-coat Hot Rolled Asphalt, together with Accommodation and ancillary works and Retaining walls. The area of Carriageway involved is approx. 6,700 sq. yd.

Plans and Conditions may be seen, and Forms of Tender, Specifications and Bills of Quantities obtained, on application to A. L. PERCY, B.Sc., M.I.C.E., M.I.Struct.E., Borough Engineer and Surveyor, High Street Buildings, Huddersfield.

Deposit £3 3s., refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Sealed Tenders, in the envelope provided, to be delivered to the undersigned not later than 10 a.m. on WEDNESDAY, 17th February, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield.
January, 1960.

BOROUGH OF UXBRIDGE.

ANNUAL TENDERS.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS for the year ending 31st March, 1961:—

Item
(1) Washed Sharp Sand.
(2) Soft Sand.
(3) ¾in. All-in Ballast.
(4) Shingle.
(5) Slag Tarmacadam and Bitumen Macadam.
(6) Granite Tarmacadam and Bitumen Macadam.
(7) Granite Chippings.
(8) Tarred Granite Chippings.
(9) Tar Applied to Roads.
(10) Portland Cement.
(11) Ashes.
(12) Paint and Distemper (Specified Brands)
(13) Dustbins.
(14) Gumboots.
(15) Protective Leather Gloves.
(16) Street Lighting Lamps.

Tender Forms for each of the above items may be obtained from HAROLD E. G. STRIPP, Esq., A.M.I.C.E., Borough Surveyor, 263 High Street, Uxbridge, Middlesex, and should be returned to me, in the envelope provided, by First Post on MONDAY, 22nd February, 1960.

E. RONALD WEST,
Town Clerk.

Council Offices,
265 High Street,
Uxbridge, Middlesex.

BRIDGE-BLEAN RURAL DISTRICT COUNCIL.

CHISLET (HOLLOW STREET) SEWERAGE, SEWAGE DISPOSAL AND HOUSE CONVERSIONS.

TENDERS are invited for the EXECUTION of SEWERAGE and SEWAGE DISPOSAL WORKS, comprising the Laying of approx. 316yd. of 6in. dia. Sewers and 4in. dia. House Drains, the Carrying Out of Water Closet Conversion Works, and the Construction of a Sewage Treatment works comprising a Brick Septic Tank, 16ft. dia. Percolating Filter, Humus Tank and Land Irrigation Area, including Fencing and other ancillary works.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Old Dover Road, Canterbury, on deposit of a fee of Two Guineas (cheques, postal orders, etc., to be made payable to the Bridge-Blean Rural District Council). The deposit will be refunded only upon receipt of a bona-fide Tender not subsequently withdrawn and the documents (Specification and Bills of Quantities) lent for the purpose of tendering.

Prints of the Drawings and the General Conditions of Contract may be inspected at the Office of the Engineer and Surveyor during normal business hours.

Tenders, in sealed envelopes endorsed "Sewerage, Hollow Street, Chislet," accompanied by the Specification, Bills of Quantities and General Summary, must reach the undersigned not later than 12 Noon on MONDAY, the 7th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

I. F. SOILLEUX,
Clerk of the Council.

Council Offices,
41 Old Dover Road,
Canterbury.
22nd January, 1960.

DORKING AND HORLEY RURAL DISTRICT COUNCIL.

HORLEY SEWAGE DISPOSAL WORKS EXTENSIONS.

CONTRACT NO. 4.

TENDERS are invited from experienced contractors for the EXTENSION of the COUNCIL'S HORLEY SEWAGE DISPOSAL WORKS. The Contract includes the Construction of Circular Tanks in Reinforced Concrete, Extensions and Modifications to Two Existing Pumping Stations, and Alterations to Existing Units, etc.

Contractors desirous of tendering may obtain copies of the Form of Tender, General Conditions, Specification and Bill of Quantities from the offices of the Consulting Engineers, MESSRS. G. B. KERSHAW AND KAUFMAN, 82 Victoria Street, Westminster, S.W.1, upon deposit of Five Guineas (cheques made payable to the Dorking and Horley Rural District Council), which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Drawings may be inspected at the offices of the Consulting Engineers or at the office of MR. P. CALDWELL, Surveyor to the Council, Council Offices, Massetts Road, Horley, any day during ordinary office hours.

Tenders, endorsed "Tender, Sewage Disposal Works Extensions—Contract No. 4," in plain sealed envelopes not bearing any name or mark indicating the sender, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, the 9th day of March, 1960.

The Council does not bind itself to accept the lowest or any Tender.

MAURICE RIDGERS,
Clerk of the Council.

Council Offices,
Brookmead,
Dorking,
Surrey.
3rd February, 1960.

CONTRACTS

WEST SUSSEX COUNTY COUNCIL.

A.27—IMPROVEMENT FROM TRAVELLERS' JOY TO BELL AND ANCHOR, NUTBOURNE.

Public works contractors wishing to TENDER for the ABOVE ROAD WIDENING, involving the Construction of approx. 9,000 sq. yd. of Lean-mix Concrete Carriageway with Bituminous Surfacing, and Two Reinforced Concrete Culverts, should submit their names to MAURICE MILNE, B.Sc., M.I.C.E., M.I.Mun.E., A.M.I.Struct.E., A.M.T.P.I., County Engineer and Surveyor, County Hall, Chichester, not later than First Post on FRIDAY, 5th February.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.
January, 1960.

BOROUGH OF NEWBURY.

SEWAGE PUMPING STATION—LOWER WAY, NEWBURY.

TENDERS are invited for the SUPPLY and INSTALLATION of TWO IDENTICAL, ELECTRICALLY DRIVEN, VERTICAL SPINDLE, UNCHOKEABLE, CENTRIFUGAL PUMPS, being capable when working together of dealing with 1,270 gallons per minute.

Specification, Drawings and Forms of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Newbury, at whose Office the Conditions of Contract may be inspected.

Tenders, endorsed "Sewage Pumping Station, Lower-way Lane," to be received by the undersigned not later than WEDNESDAY, 24th February, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

LESLIE SOUTHERN,
Town Clerk.

BOROUGH OF ERITH.

PICARDY STREET (B.213) IMPROVEMENT.

TENDERS are invited for the REALIGNMENT of the EXISTING HIGHWAY over a length of approx. 400 lin. yd., involving the Construction of Dual Concrete Carriageways each 20ft. wide, and Artificial Stone Paved Footways, together with Turfed Areas and Matching in Approach Roads, with Flexible Carriageway Construction.

Drawings may be inspected, by appointment, at the Office of the Borough Engineer and Surveyor, Town Hall, Erith, from whom Tender documents may be obtained on payment of £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender which is not subsequently withdrawn.

Tenders are to be submitted on the form provided, enclosed in a plain sealed envelope endorsed "Picardy Street Improvements," and delivered to the undersigned not later than 12 Noon on FRIDAY, 19th February, 1960.

The contractor must be prepared to enter into a formal contract and bond with two sureties for the due performance of the Contract.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. CROMPTON,
Town Clerk.

Town Hall,
Erith, Kent.

BOROUGH OF REIGATE.

ONE BLOCK OF 12 FOUR-STOREY MAISONNETTES AND
ONE BLOCK OF 14 FOUR-STOREY MAISONNETTES WITH STORES UNDER, AT THE DOME ESTATE (NORTH STREET), REDHILL.

FIXED-PRICE TENDERS invited, based upon Bills of Quantities, for SUBSTRUCTURE and SITE WORKS, and Lump Sum for SUPERSTRUCTURE.

Form of Tender, Specificaion, Bills of Quantities and Plans obtainable from Borough Surveyor, Town Hall, Reigate, on payment of deposit of £2 2s.

Closing date for receipt of Tenders: Noon, 18th FEBRUARY, 1960.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.

HOLYWELL URBAN DISTRICT COUNCIL.

WATER SUPPLY.

TENDERS are invited, on a Fixed-price Basis, from public works contractors, for PROVIDING and LAYING about 1,300yd. of 6in. dia. ASBESTOS-CEMENT PIPES and for Fixing Valves and Fittings, etc., at HOLYWELL.

The Bills of Quantities, Specification and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. WILLIAMS AND CLARKE, 6 Godstall Chambers, Chester, on payment of Two Guineas by cheque made payable to the Holywell Urban District Council, which sum will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, accompanied by a fully priced Bill of Quantities. Plans may be inspected at the Engineers' Office.

Tenders should be delivered to the undersigned not later than 5 p.m. on MONDAY, the 29th February, 1960, and the Council do not bind themselves to accept the lowest or any Tender.

Dated this 26th day of January, 1960.

J. KERFOOT ROBERTS,
Clerk of the Council.

Town Hall,
Holywell, Flintshire.

ROCHFORD RURAL DISTRICT.

HULLBRIDGE SEWERAGE—SECOND DEVELOPMENT.

FERRY ROAD AREA.

TENDERS are invited from experienced contractors for the CONSTRUCTION of about 600yd. of 6in. and 9in. dia. STONEWARE PIPE SEWERS, with Brick Manholes, and a similar length of 6in. dia. RISING MAIN in Asbestos-cement PRESSURE PIPE; also for a SEWERAGE PUMPING STATION, with Reinforced Concrete Storage Sump and Pump Well, and Brick Superstructure.

Copies of relevant Drawings and of the Specification, Bills of Quantities and Form of Tender may be obtained from the Council's Engineer and Surveyor on payment of a deposit of Three Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Further Drawings may be inspected by appointment at the Council Offices.

Tenders, in plain sealed envelopes endorsed "Hullbridge Sewerage—Second Development, Ferry Road Area," must be delivered to the undersigned not later than 12 Noon on THURSDAY, 25th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

S. C. HARRIS,
Clerk of the Council.

Council Offices,
Rochford, Essex.
15th January, 1960.

CONTRACTS

ROYAL COUNTY OF BERKSHIRE.

PRIVATE STREET WORKS ACT, 1892.

TENDERS are invited for MAKING-UP the FOLLOWING PRIVATE STREETS:—

(1) Jack's Piece, Wootton (Part 1).
(2) Jack's Piece, Wootton (Part 2).

The work on each of these roads will comprise a separate contract, and involves the following:—

Jack's Piece (Part 1). — Approx. 300 sq. yd. of Hardcore and Bituminous Macadam Carriageway, 150 sq. yd. of Tarmacadam and Asphalt Footways, 100 lin. yd. of Kerbing, and incidental works.

Jack's Piece (Part 2). — Approx. 900 sq. yd. of Hardcore and Bituminous Macadam Carriageway, 350 sq. yd. of Tarmacadam and Asphalt Footways, 270 lin. yd. of Kerbing, Highway Drainage, and incidental works.

Drawings may be inspected at, and Specification, Bills of Quantities and Forms of Tender obtained from, the Office of the COUNTY SURVEYOR, Shire Hall, Reading, on payment of a deposit of £2 for each contract.

The £2 deposits will be refunded on receipt of bona-fide Tenders.

Tenders, in envelope provided, must be returned by not later than 12 Noon on FRIDAY, 12th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

CAERNARVONSHIRE COUNTY COUNCIL.

ANNUAL CONTRACTS.

TENDERS invited for SUPPLY of UNDERMENTIONED MATERIALS, etc., for year commencing 1st April, 1960:—

No.
(1) Concrete Kerbs and Paving Slabs.
(2) Single-sized Roadstone and Chippings.
(2a) Single-sized Gravel Aggregates for Roads.
(3) Pitching Stone, Building Stone, Hardcore and Quarry Dust.
(4) Concrete Aggregates.
(5) Salt Glazed Ware, Concrete and Porous Concrete Pipes and Agricultural Drain Pipes.
(6) and (7) Bitumen Macadam Fine Graded Cold and Warm Asphalt and Precouted Chippings.
(8) Heating and Planing of Road Surfaces.
(9) Tar, Tar Compounds, Bitumen and Cold Emulsion.
(10) Enamel Paints.
(10a) White Line Paint.
(11) Hire of Rollers and Contractors' Plant.
(13) Cement.
(14) Gully Grids and Frames, Manhole Covers and Frames.
(15) Traffic Signs.
(16) Rock Salt.
(18) Plastic White Line Materials.
(19) Bulk Spraying (Hot Tar and Tar Bitumen Compound) and Supply and Lay of Pretreated Chippings.
(20) Bulk Spraying of Bitumen Emulsion (Mist Spray Process).

Forms of Tender and further particulars from County Surveyor, County Offices, Caernarvon. Tenders to CLERK OF THE COUNTY COUNCIL, County Offices, Caernarvon, by 13th FEBRUARY. Council not bound to accept any Tender.

BOROUGH OF UXBRIDGE.

CONTRACT NO. 432.

RECONSTRUCTION OF CHURCH HILL AND HIGH STREET, HAREFIELD (PART).

The BOROUGH COUNCIL invite contractors, with experience of similar work, who wish to be considered to TENDER for the ABOVE CONTRACT to submit their names and details of their experience to HAROLD E. G. STRIPP, A.M.I.C.E., Borough Surveyor, 263 High Street, Uxbridge, Middlesex, by 12th FEBRUARY, 1960.

The works will comprise the Widening and Reconstruction of some 600 lin. yd. of Road by Kerbing and Forming Hard Shoulders to the existing narrow carriageway in Dry Lean Mix Concrete, Surfacing the whole with Bitumen/Tarmacadam, Constructing Tarmacadam Footways, and other ancillary works.

E. RONALD WEST,
Town Clerk.

265 High Street,
Uxbridge, Middx.

PADIHAM URBAN DISTRICT COUNCIL.

TENDERS FOR CONSTRUCTION OF ROADS AND SEWERS.

TENDERS are invited for the CONSTRUCTION of ROADS (excluding the Final Surfacing) and the LAYING of SEWERS on certain land off SLADE LANE, Padiham.

Specification, etc., will be sent on application to the Surveyor, Town Hall, Padiham. Applications should be accompanied with a deposit of £1 1s., which will be refunded if a bona-fide Tender (not subsequently withdrawn) is submitted.

Tenders, in plain sealed envelopes bearing the words "Tender for Roads and Sewers," but not bearing any name or mark indicating the sender, should be received by me by 24th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. VEEVERS,
Clerk of the Council.

Town Hall,
Padiham.
22nd January, 1960.

BRIDGE-BLEAN RURAL DISTRICT COUNCIL.

ERECTION OF 12 DWELLINGS AT HOLLOW STREET, CHISLET.

TENDERS are invited for the ERECTION of TWO PAIRS of THREE-BEDROOM HOUSES, ONE BLOCK of FOUR FLATS and ONE BLOCK of FOUR BUNGALOWS at Hollow Street, Chislet, and the Provision of External Services within the Curtilage of the Dwellings.

Copies of the Bills of Quantities and Form of Tender may be obtained from the Council Offices, 41 Old Dover Road, Canterbury, on deposit of a fee of Two Guineas (cheques, postal orders, etc., to be made payable to the Bridge-Blean Rural District Council). The deposit will be refunded only upon receipt of a bona-fide Tender not subsequently withdrawn and the documents (Bills of Quantities) lent for the purpose of tendering.

Prints of the Drawings may be inspected either at the Office of the Architect, H. V. GODFREY, A.R.I.B.A., 63 Oxford Street, Whitstable, or at the Council Offices during normal office hours.

Tenders, in sealed envelopes endorsed "Houses, Hollow Street, Chislet," accompanied by the Bills of Quantities and the General Summary, must reach the undersigned not later than 12 Noon on MONDAY, the 7th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

I. F. SOILLEUX,
Clerk of the Council.

Council Offices,
41 Old Dover Road,
Canterbury.
22nd January, 1960.

CONTRACTS

ADMINISTRATIVE COUNTY OF LEICESTER.

TENDERS are invited for the SUPPLY and ERECTION of 10 SODIUM LAMPS on 35ft. Columns at THURMASTON BY-PASS ROUNDABOUT.

Further details and Forms of Tender may be obtained from the COUNTY ENGINEER AND SURVEYOR, Grey Friars, Leicester, on deposit of £2.

Closing date: 12th FEBRUARY, 1960.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

TENDERS FOR SUPPLY AND LAYING ASPHALT PAVING AND BITUMINOUS MACADAM ROAD CARPETS.

The CORPORATION invite TENDERS for the FOLLOWING for the period 1st April, 1960, to 31st March, 1961:

(a) Supplying and Laying Two-coat Rolled Asphalt Paving on Carriageways and Footways.
(b) Supplying and Laying by Barber-Greene Machine on prepared Surfaces 1in. and 3in. Consolidated Bituminous Macadam in Carriageways.

Specifications, Conditions of Contract and Form of Tender may be obtained from the Borough Engineer and Surveyor, Guildhall, Swansea.

Tenders, in sealed plain envelopes which must not bear any name or mark indicating the sender, endorsed "Tender for Bituminous Macadam Surfacing" or "Tender for Asphalt Paving," must be delivered to the undersigned not later than WEDNESDAY, the 24th February, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

T. B. BOWEN,
Town Clerk.

The Guildhall,
Swansea.
21st January, 1960.

EASTHAMPSTEAD RURAL DISTRICT COUNCIL.

FERNBANK PLACE, ASCOT—CONCRETE GARAGE BASES, ACCESS ROAD, AND ANCILLARY WORKS.

TENDERS are invited for the CONSTRUCTION of THREE BLOCKS of GARAGE BASES in CONCRETE (one block of 17 and two blocks of 10), 688 sq. yd. REINFORCED CONCRETE ACCESS ROAD and PARKING SPACE, and 100 lin. yd. of KERB, and ancillary works.

Copies of the General Conditions of Contract, Specification and Bill of Quantities, Drawings and Form of Tender may be obtained on payment of a deposit of £2 2s., returnable on submission of a bona-fide Tender not subsequently withdrawn, from the Engineer and Surveyor, Council Offices, Church Road, Bracknell, Berks. Remittances should be crossed and made payable to Easthampstead Rural District Council.

Tenders, enclosed in the envelopes to be provided, must be sealed and delivered to the undersigned not later than Noon on THURSDAY, the 25th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

D. H. M. SAUNDERS,
Clerk of the Council.

22nd January, 1960.

MARKET HARBOROUGH RURAL DISTRICT COUNCIL.

MOWSLEY, LAUGHTON AND GUMLEY SEWERAGE.

TENDERS are invited from experienced contractors for the LAYING of SEWERS at Mowsley, Laughton and Gumley, the CONSTRUCTION of a JOINT SEWAGE DISPOSAL WORKS for the villages of Mowsley and Laughton, and the CONSTRUCTION of a SEWAGE DISPOSAL WORKS at Gumley.

The work, which will be embodied in one main Contract, will include the Laying of about 3,200yd. of 9in. and 6in. dia. Sewers at Mowsley and Laughton, and the Laying of about 800yd of 6in. dia. Sewers at Gumley, together with Manholes and House Connections.

Drawings may be seen at the Offices of the Council's Consulting Engineers, MESSRS. PICK, EVERARD, KEAY AND GIMSON, 6 Millstone Lane, Leicester, from whom a Specification and Bill of Quantities may be obtained on payment of a deposit of Five Guineas, which will be refunded on receipt of a bona-fide Tender and the return to the Engineer of documents supplied.

Tenders, on the loose form and in the envelope provided, are to be delivered to the undersigned not later than 10 o'clock in the Forenoon of MONDAY, the 29th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

T. R. SMITH,
Clerk of the Council.

Council Offices,
42 High Street,
Market Harborough,
Leics.

LECKHAMPTON PARISH COUNCIL.

STREET LIGHTING.

TENDERS are invited for SUPPLY and INSTALLATION of a SYSTEM of NINETEEN 140-W SODIUM DISCHARGE LAMPS mounted on 25ft. Columns, for a Length of Trunk Road A.46 in Leckhampton.

The Specification and Bills of Quantities may be obtained from THE CLERK OF THE LECKHAMPTON PARISH COUNCIL, 259 Old Bath Road, Cheltenham.

Closing date: 1st MARCH, 1960.

LEEDS REGIONAL HOSPITAL BOARD.

TO HEATING CONTRACTORS.

FIXED-PRICE TENDERS are invited for CARRYING OUT IMPROVEMENTS to HEATING and HOT-WATER SERVICES in the ADMISSION UNIT and TWO VILLAS at MENSTON HOSPITAL, near Leeds.

Applications for Form of Tender and Specification and Drawings, accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona-fide Tender and other Contract documents), must be made to the Architect to the Board at the undermentioned address not later than 12 Noon on WEDNESDAY, 10th February, 1960. Cheques should be made payable to the Leeds Regional Hospital Board and crossed.

A copy of the Drawings, Conditions of Tender and Conditions of Contract may be inspected at the Office of the Architect to the Board, or at the Office of MESSRS. E. GRIFFITHS AND SON, Consultant Engineers, Kinders, Bromborough, Cheshire.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 9th March, 1960.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park Parade,
Harrogate, Yorks.

CONTRACTS

COUNTY BOROUGH OF READING.

BLAGDON ROAD HOUSING ESTATE—FOOTWAYS.

TENDERS are invited for CONSTRUCTION of 3,300 sq. yd. (approx.) of FOOTWAYS, together with Verges and incidental works.

General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained, for fee of Two Guineas (cheques payable to Reading Corporation) at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender.

Tenders to be delivered to TOWN CLERK, Town Hall, Reading, by 12 Noon on 22nd FEBRUARY, 1960. No Tender considered unless enclosed in plain sealed envelope endorsed "Blagdon Road Footways," but bearing no indication of sender.

The Corporation do not bind themselves to accept any Tender.

BOROUGH OF MALDON.

MAIN SEWERAGE—CONTRACT NO. 3.

TENDERS on a Fixed-price Basis, are invited for the EXECUTION of the FOLLOWING WORKS:

(a) Approx. 430yd. of 18in. Concrete Sewer and approx. 4,160yd. of 9in., 6in. and 4in. Glazed Stoneware Sewers;
(b) 34 Concrete Tube Manholes; and
(c) Crossing under Canal of 9in. Spun-iron Pipes by Thrust Boring or otherwise.

Copies of the Specification, etc., may be obtained from the Engineers, MESSRS. ROBERTS & FARRAN, 20 South Parade, Doncaster, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender. Drawings may be inspected at the Offices of the Engineers, or at the Municipal Offices, Maldon.

Tenders, in plain sealed envelopes endorsed "Main Sewerage—Contract No. 3," addressed to the undersigned, must be received not later than the 3rd MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

K. C. ROBERTSON,
Town Clerk.

Municipal Offices,
Market Hill,
Maldon, Essex.

BOROUGH OF BARNES.

ROCKS LANE, A.306—SURFACE WATER SEWER.

TENDERS are invited from experienced civil engineering contractors for the ABOVE WORKS.

The works consist of 300 lin. yd. of 33in. dia. Concrete Tube Sewer in Rocks Lane (A.306); 63 lin. yd. of 27in. dia., 110 lin. yd. of 24in. dia., 90 lin. yd. of 21in. dia. and 167 lin. yd. of 18in. dia. in Church Road (A.3003), Barnes, together with the Construction of Manholes, and ancillary works.

The Form of Tender, Bill of Quantities and Specification may be obtained from the undersigned, to whom they should be returned, in the envelope provided, not later than First Post, FRIDAY, 26th February, 1960.

W. R. SHEPHERD, M.I.Mun.E., F.R.I.C.S.,
Borough Engineer and Surveyor.

Municipal Offices,
Sheen Lane, S.W.14.
25th January, 1960.

BOROUGH OF DEAL.

RECONSTRUCTION OF DEAL CASTLE ROAD AND PRINCE OF WALES TERRACE.

FIXED-PRICE TENDERS are invited for the RECONSTRUCTION of the ABOVE CARRIAGEWAY and Footpaths, which include approx. 3,800 sq. yd. of Tarmacadam and Asphalt Surfacing, together with 10in. Lean-mix or Stabilised Sub-base, 650 lin. yd. of Kerbing and Channelling, 550 sq. yd. of Precast Flag Footpath, and ancillary works.

Form of Tender, Specification and Bills of Quantities may be obtained from the Borough Engineer on payment of a deposit of Two Guineas, returnable on receipt of a bona-fide Tender. Drawings may be inspected at the Borough Engineer's Office.

Tenders, in a plain sealed envelope endorsed "Tender—Reconstruction of Deal Castle Road and Prince of Wales Terrace," must be delivered to the undersigned not later than 10 a.m. on MONDAY, 15th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

E. S. DIXON,
Town Clerk.

Municipal Offices,
Queen Street,
Deal.

CITY OF STOKE-ON-TRENT.

HIGHWAYS ACT, 1959.

(a) MAKING-UP AND WIDENING OF FEGG HAYES ROAD (PART), FEGG HAYES—CONTRACT NO. 908.
(b) WHIELDON CRESCENT, FENTON—CONTRACT NO. 888.
WILLOWDALE AVENUE, FENTON—CONTRACT NO. 889.
LOUISE DRIVE (PART), BLURTON—CONTRACT NO. 896.
ST. MARGARET'S GROVE, BLURTON—CONTRACT NO. 897.

The CORPORATION invite TENDERS for the MAKING-UP of the ABOVE STREETS.

Drawings and Conditions of Contract may be seen and Bills of Quantities and Specifications obtained from the City Surveyor's Department, Town Hall, Stoke-on-Trent, on payment of £2 each in respect of (a) and (b), which will be returned on receipt of a bona-fide Tender.

Tenders and priced Bills of Quantities must be delivered to the Town Clerk, Town Hall, Stoke-on-Trent, in the separate envelopes provided, not later than 12 Noon on WEDNESDAY, the 10th February, 1960.

HARRY TAYLOR,
Town Clerk.

LITTLEBOROUGH URBAN DISTRICT COUNCIL.

The above Council invite FIRM-PRICE TENDERS for the CONSTRUCTION of ONE BLOCK of PUBLIC CONVENIENCES.

The General Conditions may be inspected on application to the Engineer and Surveyor at the Council Offices, Littleborough, from whom copies of the Specification, Drawings, and Form of Tender may also be obtained.

No Tender will be received except in a plain sealed envelope endorsed "Tender for Public Conveniences," which must not bear any name or mark indicating the sender.

Tenders, on the prescribed form, sealed and endorsed as above, must be delivered to the undersigned not later than SATURDAY, 20th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. C. CLOUGH,
Clerk of the Council.

Council Offices,
Littleborough.
30th January, 1960.

CONTRACTS

GOVERNMENT OF CEYLON.

AMENDED TENDER NOTICE.

The Chairman, Tender Board, Ministry of Works, Transworks House, Colombo, Ceylon, will receive TENDERS up to 9.30 a.m. on WEDNESDAY, 4th May, 1960, for the PURIFICATION PLANT for the University of Ceylon, Peradeniya Water Supply Scheme. Tenders will be opened at 2.30 p.m. on the same day and at the same place in the presence of the tenderer or his representative.

Tenders should be made in triplicate, in accordance with the Conditions of Tender, Specifications, etc., which may be obtained at the Office of the Chief Engineer, Construction and Maintenance (Waterworks), P.W.D., Ratmalana, Ceylon, or the Crown Agents for Overseas Governments and Administrations up to Noon on MONDAY, 29th February, 1960, on payment of a Tender deposit of Rs.500/- where the Tender is issued in Ceylon and on payment of a Tender deposit of £50 and a Tender fee of £5 where the Tender is issued abroad. Sealed Tenders may be sent either under registered cover, addressed to the Chairman, Tender Board, Ministry of Works, Transworks House, Colombo, Ceylon, or handed personally to him. The sealed Tenders should state on the cover, particulars of the service, and the name and address of the tenderer.

When applying for Tender Forms, tenderers should produce evidence that they have done similar work elsewhere, preferably in the tropics, and that they have employees on their staff fully qualified to undertake the proposed work. They should also produce evidence that they have local agents in Ceylon. They should further be prepared to furnish the names and addresses of their proposed sureties.

Tenderers should keep their Tenders open for a period of 60 days from the closing date of this Tender to enable the consideration of the Tenders received.

Tender Forms and connected documents would be issued:

(a) In Ceylon, by the Chief Engineer (Construction and Maintenance) Waterworks, P.W.D., Ratmalana.
(b) In the United Kingdom and Overseas by the Crown Agents for Overseas Governments and Administrations, 4 Millbank, London, S.W.1.
(a) The Tender deposit of tenderers from Ceylon may be made at the P.W.D. HEAD OFFICE, Colombo, or at any Kachcheri and receipt submitted.
(b) The Tender deposit and Tender fee for Tenders from United Kingdom and Overseas may be made to the CROWN AGENTS FOR OVERSEA GOVERNMENTS AND ADMINISTRATIONS, 4 Millbank, London, S.W.1.

LETCHWORTH URBAN DISTRICT COUNCIL.

FENCING.

TENDERS are invited for the PROVISION and ERECTION of approx. 1,200 lin. yd. of 4ft. high CHAIN LINK FENCING, together with ancillary works, on the GRANGE ESTATE, Letchworth.

Documents may be obtained from MR. E. L. JOHNSON, M.I.Mun.E., The Council House, Letchworth, upon payment of £2 2s. deposit, refundable on receipt of a bona-fide Tender, and Conditions of Contract and Drawings may be inspected in the office during normal working hours.

Tenders, in the envelope provided, should be returned not later than First Post on FRIDAY, 19th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. PLINSTON,
Clerk of the Council.

The Council House,
Letchworth, Herts.
January, 1960.

NESTON URBAN DISTRICT COUNCIL.

CLAYHILL HOUSING ESTATE, NESTON.

ROADS AND SEWERS.

TENDERS are invited, on a Fixed-price Basis, for the CONSTRUCTION of ROADS and SEWERS to serve the First Stage of Housing Development at Clayhill, Liverpool Road, Neston, comprising 50 Dwellings.

Drawings may be inspected at the Office of the Engineer/Surveyor, Town Hall, Neston, Wirral, from whom Tender documents may be obtained.

Tenders should be forwarded, in plain sealed envelopes endorsed "Roads and Sewers—Clayhill Housing Estate," to be received by the undersigned not later than 10 a.m. on SATURDAY, 20th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. H. D. HARTMAN,
Clerk of the Council.

Town Hall,
Neston, Wirral.
29th January, 1960.

RUISLIP - NORTHWOOD URBAN DISTRICT COUNCIL.

TENDERS are invited for CARRYING OUT SURFACE WATER DRAINAGE WORKS at RUISLIP (600yd. Reinforced Concrete Culvert, 2,000yd. approx. 15-36in. dia. Concrete Sewer, Concrete and Brick Manholes, and ancillary works).

Tender documents, obtainable from the Engineer and Surveyor on payment of £2 2s. deposit, which is returnable on receipt of a bona-fide Tender, to be returned to the undersigned by 10 a.m., MONDAY, 7th March, 1960.

EDWARD S. SAYWELL,
Clerk of the Council.

CIRENCESTER RURAL DISTRICT COUNCIL.

FAIRFORD WATER SUPPLY.

TENDERS are invited for the CONSTRUCTION of approx. 2,380 lin. yd. of 6in. dia. WATER MAINS, approx. 1,160 lin. yd. of 4in. dia. WATER MAINS, and approx. 4,700 lin. yd. of 3in. dia. WATER MAINS, all in Spun-iron Pipes, with incidental Works, in accordance with the Drawings, Specification and Bills of Quantities prepared by the Engineers, MESSRS. A. H. S. WATERS AND PARTNERS, of 25 Temple Row, Birmingham, 2.

The Drawings may be seen at, and the General Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from the offices of the undersigned, or of the Engineers, on or after 5th February, 1960, on payment of a deposit of Five Guineas, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, on the form supplied and in the endorsed envelope provided, are to be delivered to me at my office not later than Noon on FRIDAY, 4th March, 1960.

The Council does not undertake to accept the lowest or any Tender.

A. WALTER,
Clerk of the Council.

Council Offices,
5 Dyer Street,
Cirencester,
Glos.
30th January, 1960.

CONTRACTS

COUNTY BOROUGH OF READING.

CATTLE MARKET CAR PARK.

TENDERS are invited for 6,250 sq. yd. (approx.) CONCRETE and TARMACADAM PAVING, together with DRAINAGE and incidental Works.

General Conditions and Drawings may be inspected and Bill of Quantities, etc., obtained for fee of Two Guineas (cheques payable to "Reading Corporation") at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender.

Tenders to be delivered to TOWN CLERK, Town Hall, Reading, by 12 Noon on 1st MARCH, 1960. No Tender considered unless enclosed in plain sealed envelope endorsed "Cattle Market Car Park," but bearing no indication of sender.

The Corporation do not bind themselves to accept any Tender.

BOROUGH OF EALING.

CONSTRUCTION OF BOUNDARY WALLS—NORTHOLT PARK ESTATE.

Forms of TENDER and Specification, etc., can be obtained from the Borough Surveyor on payment of £2.

Tenders to be delivered to the TOWN CLERK, Town Hall, Ealing, W.5, not later than 12 Noon, 25th FEBRUARY, 1960.

BOROUGH OF HALESOWEN.

SURFACE DRESSING, 1960/61.

TENDERS are invited for SURFACE DRESSING, with materials to be supplied by the Corporation, of approx. 150,000 sq. yd. of CARRIAGEWAYS and 10,000 sq. yd. of FOOTPATHS in the Borough.

Forms of Tender, Specification and details may be obtained from the Borough Engineer and Surveyor, Council House, Halesowen.

Tenders, in plain sealed envelopes endorsed "Surface Dressing—No. 16," to be delivered to me not later than 12 Noon on SATURDAY, 20th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. B. McCOOKE,
Town Clerk.

Council House,
Halesowen.
January, 1960.

BOROUGH OF MARGATE.

SUPPLY AND ERECTION OF A CAFE AT ST. MILDRED'S BAY.

TENDERS are invited for the SUPPLY and ERECTION of a CAFE at St. Mildred's Bay, Westgate.

Specification and Plans may be obtained from the Borough Engineer, 38 Grosvenor Place, Margate, on application.

Tenders, in plain sealed envelopes, bearing no name or mark indicating the identity of the sender, and endorsed "St. Mildred's Bay Cafe," are to be delivered to the undersigned not later than 12 Noon on SATURDAY, 20th February, 1960.

T. F. SIDNELL,
Town Clerk.

Town Clerk's Office,
40 Grosvenor Place,
Margate.
26th January, 1960.

ABINGDON RURAL DISTRICT COUNCIL.

EXTENSIONS TO GOZZARD'S FORD.

SEWAGE DISPOSAL WORKS AND MAIN DRAINAGE OF MARCHAM.

TO CIVIL ENGINEERING AND PUBLIC WORKS CONTRACTORS.

The Abingdon Rural District Council invite TENDERS from experienced contractors for the CONSTRUCTION of approx. THREE MILES of 6in. and 9in. SEWERS and 4in. and 6in. RISING MAINS, a PUMPING STATION, an EJECTOR STATION, EXTENSIONS to the existing SEWAGE DISPOSAL WORKS, and other ancillary Works.

Particulars and Specification may be obtained, and Plans may be inspected, at the offices of the Consulting Engineers, MESSRS. HOWARD HUMPHREYS AND SONS, Victoria Station House, Victoria Street, London, S.W.1, on and from Monday, 8th February, 1960, until Friday, 4th March, 1960, between the hours of 10 a.m. and 4 p.m., upon payment of a deposit of Five Guineas by cheque made payable to the Abingdon Rural District Council, which deposit, after the Council have reached a decision, will be returned to each contractor who has submitted a bona-fide Tender which has not subsequently been withdrawn.

Tenders are to be on the official form and are to be delivered to the undersigned in sealed envelopes endorsed "Tender for Extensions to Gozzard's Ford Sewage Disposal Works and Main Drainage of Marcham (A31/1)," but bearing no other mark indicating the sender, not later than MONDAY, 7th March, 1960.

The Council do not undertake to accept the lowest or any Tender.

A. COPE,
Clerk of the Council.

Council Offices,
60 Bath Street,
Abingdon,
Berkshire.
January, 1960.

SOUTH CARDIGANSHIRE WATER BOARD.

CONTRACT NO. 12—MAINLAYING—CAMMER FAWR (TREGARON) TO MYNYDD BACH.

The South Cardiganshire Water Board invite TENDERS from experienced contractors for the LAYING of approx. 12,400yd. of 8in. ASBESTOS-CEMENT, STEEL and SPUN-IRON WATER MAINS, and incidental works in connection therewith.

Copies of the General Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from the Engineers, MESSRS. ROFE AND RAFFETY, 9 Brewer's Green, Buckingham Gate, Westminster, London, S.W.1, on payment (by cheque only) of Two Guineas deposit, which will be returned on receipt of a bona-fide Tender and the return of all documents and Drawings supplied.

The Contract Drawings may be inspected at the Offices of the Engineers at the above address, or at the Offices of the Engineer to the Board, 36 Alban Square, Aberayron.

Tenders, on the forms supplied, with particulars of experience, must be delivered to the Clerk of the South Cardiganshire Water Board, County Office, Marine Terrace, Aberystwyth, not later than Noon, 26th FEBRUARY, 1960, in a plain sealed envelope endorsed "Tender for Mainlaying Contract No. 12."

The Board do not bind themselves to accept the lowest or any Tender.

J. E. R. CARSON,
Clerk of the Board.

County Office,
Marine Terrace,
Aberystwyth.

CONTRACTS

BOROUGH OF PORT TALBOT.

PROPOSED BRANCH LIBRARY—SANDFIELDS, ABERAVON.

The CORPORATION invites TENDERS for the ERECTION of a BRANCH LIBRARY at MORRISON ROAD, Sandfields, Aberavon.

Bill of Quantities may be obtained from MR. G. V. GRIFFITHS, A.M.I.C.E., Borough Engineer, Municipal Buildings, Port Talbot, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Plans are available for inspection at the Borough Engineer's Department, Municipal Buildings, Port Talbot, during normal working hours.

The contractor whose Tender is accepted will be required to enter into a Bond of Surety with a Bank or Insurance Company.

Tenders, sealed and endorsed "Branch Library, Sandfields," to be delivered to the undersigned not later than 22nd FEBRUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. KING DAVIES,
Town Clerk.

Municipal Buildings,
Port Talbot.
25th January, 1960.

BOROUGH OF PORT TALBOT.

TRADITIONAL HOUSING PROGRAMME.

The CORPORATION invites TENDERS for the ERECTION of 36 THREE-BEDROOM DWELLINGS at JERSEY HOUSE SITE, BAGLAN, Port Talbot.

Plans and Specification can be obtained from MR. G. V. GRIFFITHS, A.M.I.C.E., Borough Engineer, Municipal Buildings, Port Talbot, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

The contractor whose Tender is accepted will be required to enter into a Bond of Surety with a Bank or Insurance Company.

Tenders, sealed and endorsed "36 Houses—Jersey House Site, Baglan," to be forwarded to the undersigned not later than 12 Noon, MONDAY, 22nd February, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

W. KING DAVIES,
Town Clerk.

Municipal Buildings,
Port Talbot.
12th January, 1960.

POPLAR BOROUGH COUNCIL.

TENDERS are invited for the year ending 31st March, 1961, for the FOLLOWING:—

Broomheads (for Street Sweeping).
Chemical Fluid (Chlorine).
Fuel, Gas and Burning Oils.
Bath Salts.
Cleansing Powder.
Scouring Powder.
Soap Dissolver.
Soaps and Soap Powders.
Soap Substitute.
Disposal of Second-hand Paving Stone, Setts, etc.

Full particulars may be obtained from the TOWN CLERK, Poplar Town Hall, Bow Road, E.3, to whom Tenders must be delivered not later than 7 p.m. on WEDNESDAY, 24th February, 1960.

BOROUGH OF HALESOWEN.

SUPPLY OF MATERIALS, ETC., 1960/61.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIAL and LABOUR during the year ending 31st March, 1961:

Laying of Kerbs and Channels (13).
Laying of Concrete Flags and Blue Brick Paving (14).
Supply of Road Tar for Surface Dressing (15).

Particulars may be obtained from the Borough Engineer and Surveyor, Council House, Halesowen.

Tenders, in plain sealed envelopes, must be delivered to me not later than 12 Noon on SATURDAY, 20th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. B. McCOOKE,
Town Clerk.

Council House,
Halesowen.
January, 1960.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

The HOUSING COMMITTEE of the Corporation are prepared to receive TENDERS for the CARRYING OUT of BORED PILING to SEVEN 15-STOREY BLOCKS OF FLATS, as FOLLOWS:

One Block at Pottery Bank.
Six Blocks at Scotswood Road (Hawes Street) Redevelopment Area.

All in Newcastle upon Tyne.

Plans, Specification and Form of Tender may be obtained on application in writing to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, where Conditions of Contract may be seen.

Sealed Tenders must reach the City Architect not later than 10 a.m. on THURSDAY, the 3rd March, 1960. No Tender will be received except in the official envelope provided, which must not bear any name or mark indicating the sender.

The Committee do not bind themselves to accept the lowest or any Tender.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
26th January, 1960.

PRESCOT URBAN DISTRICT COUNCIL.

AMENDED ADVERTISEMENT.

ANNUAL TENDERS—1960/61.

TENDERS are invited for ROAD MATERIALS, CEMENT, STONEWARE PIPES, PAINTS, HIRE of STEAM ROLLERS and LORRIES, etc., for the year ending 31st March, 1961.

Particulars and Forms of Tender may be obtained from MR. F. A. GREGSON, Engineer and Surveyor, Council Offices, Prescot.

Tenders must be delivered by Post to the Clerk of the Council, Council Offices, Prescot, not later than SATURDAY, the 13th February, 1960.

No Tender will be considered unless it is enclosed in a plain sealed envelope bearing the words "Tender for Materials."

The envelope must not bear any mark or name indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender and will not pay any expenses in connection therewith.

F. LAMBERT,
Clerk of the Council.

Council Offices,
Prescot.
26th January, 1960.

COUNTY COUNCIL OF DURHAM.

TENDERS invited for SUPPLY to SCHOOLS of the FOLLOWING:—

(1) Furniture (Chairs, Desks, Cupboards, etc.).
(2) Educational Text Books and School Library Books.
(3) Woodwork and Metalwork Tools.
(4) Sweeping Compound.
(5) (a) Modelling and Pottery Furniture and Equipment.
(b) Brickwork Workshop Equipment to Durham Technical College.
(6) Curtains to Assembly Hall at Hebburn Technical College.

Forms of Tender, returnable by 19th FEBRUARY, 1960, and details from undersigned.

G. H. METCALFE,
Director of Education.

Shire Hall,
Durham.
25th January, 1960.

BOROUGH OF MARGATE.

ANNUAL TENDERS, 1960-61.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS for the 12 months commencing 1st April, 1960:—

(1) Kerb and Channel and Slabs.
(2) Cement.
(3) Concrete Aggregates and Building Sands.
(4) Tarmacadam and Cold Asphalt.
(5) Brushes and Brooms, and General Ironmongery.
(6) General Building Materials.

Forms of Tender, Specifications and Conditions for the supply of any of the above-mentioned items may be obtained from the Borough Engineer, 38 Grosvenor Place, Margate.

Tenders, in plain sealed envelopes, endorsed "Annual Tenders—Materials," should be sent to the undersigned, by whom they should be received not later than 12 Noon on SATURDAY, 20th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

T. F. SIDNELL,
Town Clerk.

Town Clerk's Office,
40 Grosvenor Place,
Margate.
25th January, 1960.

BOROUGH OF LEOMINSTER.

ANNUAL TENDERS, 1960-61.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING during the period commencing 1st April, 1960, and ending on 31st March, 1961:—

(1) Concrete Kerb.
(2) Tarmacadam.
(3) Refined Tar.
(4) Chippings.
(5) Concrete Aggregate.
(6) Dry Stone.
(7) Road Roller Hire.

Forms of Tender, Specifications and Conditions of Contract may be obtained on application to the Borough Surveyor, Mr. H. SCHOFIELD, M.I.Mun.E., M.Inst.H.E., Municipal Offices, Grange Court, Leominster.

Tenders, on the form supplied, must be delivered to the undersigned not later than 12 o'clock Noon on MONDAY, 15th February, 1960, in plain sealed envelope, endorsed "Tender for Materials."

The Council do not bind themselves to accept the lowest or any Tender.

K. DOWNS,
Town Clerk.

Municipal Offices,
Grange Court,
Leominster, Herefordshire.
25th January, 1960.

CITY OF ROCHESTER.

AMENDED ADVERTISEMENT.

WARREN WOOD REDEVELOPMENT—STAGE IV.

26 THREE-BEDROOM HOUSES AND 12 FLATS.

TENDERS are invited for the ERECTION of the ABOVE DWELLINGS.

Conditions of Contract, Bills of Quantities and Form of Tender will be forwarded on payment of £3 3s. at the Office of J. A. PEEL, A.M.I.C.E., A.M.I.Mun.E., the City Surveyor, 66 Maidstone Road, Rochester.

The deposits will be returned on receipt of bona-fide Tenders or on the notification of inability to tender, together with the return of the documents.

This Tender is to be submitted on a Fixed-price Basis only.

Tenders should be enclosed in the suitably endorsed envelope provided, and documents returned in another endorsed envelope.

Tenders must be sealed and delivered to the Town Clerk, Guildhall, Rochester, not later than 12 Noon on MONDAY, 7th March, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall,
Rochester.
23rd January, 1960.

STANDISH-WITH-LANGTREE URBAN DISTRICT COUNCIL.

BROOMFIELD HOUSING SITE.

FIRM-PRICE TENDERS are invited for the FOLLOWING WORKS:

CONTRACT NO. 1—Erection of 24 Old People's Bungalows, Warden's Flat and Communal Buildings.

CONTRACT NO. 2—Construction of Streets and Sewers and Site Works for the above development.

Bills of Quantities and Forms of Tender may be obtained from the Clerk of the Council, Ashfield House, Standish, upon payment of Two Guineas, for each set of documents, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

The Tenders are to be returned in a plain sealed envelope endorsed "Tender—Broomfield Housing Site—Contract No. 1 (and/or No. 2)," to reach the undersigned not later than 12 Noon on the 29th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

D. CHISHOLM,
Clerk of the Council.

Council Offices,
Ashfield House,
Standish.
29th January, 1960.

FYLDE WATER BOARD.

TENDERS are invited for the SUPPLY and DELIVERY of ELECTRICAL EQUIPMENT, FITTINGS, etc.

Further particulars and Tender documents from ENGINEER TO THE BOARD, Sefton Street, Blackpool.

Tenders must be delivered not later than 19th FEBRUARY, 1960.

BERKSHIRE COUNTY COUNCIL.

BIENNIAL TENDERS, 1960-62.

The Council invite TENDERS for the ITEMS SPECIFIED BELOW for the two years ending 31st March, 1962:

(1) Cold Asphalt, Tar and Bitumen Macadam, Dry Stone, Chippings.
(2) Refined Tar, Tar and Bitumen Compounds, Cold Emulsion.
(3) Supply and Lay by Machine: Asphalt, Tar and Bitumen Macadam.
(4) Concrete Pipes and Kerbs.
(5) Cast-Iron Manhole Covers, Gullies and Frames.
(6) Footway, Kerbing and minor Drainage Works.

Forms of Tender, Conditions, etc., may be obtained from the COUNTY SURVEYOR, Shire Hall, Reading, upon receipt of a stamped addressed envelope.

Tenders should be returned, in the envelope provided, not later than 12 Noon, MONDAY, 15th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

CITY OF WINCHESTER.

The CORPORATION invite TENDERS for the FOLLOWING WORKS:

(1) Reconstruction and Resurfacing of Roads in the city.
(2) Widening and Reconstruction of Kilham Lane.
(3) Construction of Two Garage Slabs and Approach Roads at Trussell Crescent and Thurmond Crescent.

Documents for these works may be obtained from the City Engineer, Guildhall, Winchester, on payment of a deposit of £2 2s. in respect of each Contract, which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Tenders, in the prescribed envelopes, must be delivered to the undersigned not later than First Post on FRIDAY, 4th March, 1960.

R. H. McCALL,
Town Clerk.

Guildhall,
Winchester.
25th January, 1960.

CITY OF PLYMOUTH.

The COUNCIL is prepared to receive the names of firms interested in TENDERING for CERTAIN MATERIALS, etc., required in connection with the erection of traditional houses and flats by direct labour.

The materials, etc., include the following:—

Copper Tube and Fittings.
Timber.
Combination Tanks.
Reconstructed Stone Fireplaces.
Sheet Lead.
Plaster Lath.
Plaster.
Roof Tiling (Concrete), complete.
Pitchmastic Flooring.
Precast Concrete Units.
Sanitary Fittings.
Salt Glazed Ware.
Asbestos Rainwater Goods.
Cast-Iron Soil and Vent Pipes.

Particulars can be obtained from the CITY ENGINEER, Guildhall, Plymouth.

MEXBOROUGH URBAN DISTRICT COUNCIL.

WATERWORKS DEPARTMENT.

TENDERS are invited for the SUPPLY and DELIVERY of PURIFIED DRIED VACUUM SALT by AIR DISCHARGE for the WATERWORKS UNDERTAKING for the period of six months ending 30th September, 1960. Form of Tender may be obtained from the Waterworks Engineer, Council Offices, Adwick Road, Mexborough, on receipt of a stamped addressed envelope.

Tenders must be submitted in a plain sealed envelope endorsed "Tender for Salt," and shall not bear any name or mark indicating the sender. Tenders must be delivered at the office of the Undersigned not later than Noon on the 27th FEBRUARY, 1960.

The lowest or any Tender not necessarily accepted.

S. H. E. CRANE,
Clerk of the Council.

Council Offices,
Adwick Road,
Mexborough.
28 January, 1960.

EASTHAMPSTEAD RURAL DISTRICT COUNCIL.

SEWER EXTENSION.

JIGS LANE, WARFIELD.

TENDERS are invited from experienced public works contractors for the CONSTRUCTION of 86 lin. yd. of 6in. dia. GLAZED STONEWARE SEWER, Manhole, Lateral and other ancillary works.

Copies of the General Conditions of Contract, Specification, Bills of Quantities, Drawings, and Form of Tender may be obtained on payment of a £2 2s. deposit, from the Offices of the Engineer and Surveyor, Church Road, Bracknell. All cheques should be made payable to Easthampstead Rural District Council. The deposit will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, enclosed in the envelopes to be provided, must be sealed and delivered to the undersigned not later than Noon on THURSDAY, 25th February, 1960.

D. H. M. SAUNDERS,
Clerk of the Council.

Council Offices,
Church Road,
Bracknell, Berks.

EASTHAMPSTEAD RURAL DISTRICT COUNCIL.

CONSTRUCTION OF SEWERS, RISING MAIN AND DIVERTOR STATION AT NORTH ROAD, CHURCH ROAD AND LONGHILL ROAD, CHAVEY DOWN, BRACKNELL, AND GROVE LANE, WINKFIELD.

TENDERS are invited from experienced public works contractors for the CONSTRUCTION of 744 lin. yd. of 6in. dia. GLAZED STONEWARE SEWERS, 457 lin. yd. of 4in. dia. ASBESTOS-CEMENT RISING MAIN, DIVERTOR STATION, Manholes, Laterals, and other ancillary works.

Copies of the General Conditions of Contract, Specification, Bills of Quantities, Drawings, and Form of Tender may be obtained on payment of a £2 2s. deposit, from the Offices of the Engineer and Surveyor, Church Road, Bracknell. All cheques should be made payable to Easthampstead Rural District Council. The deposit will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, enclosed in the envelopes to be provided, must be sealed and delivered to the undersigned not later than Noon on THURSDAY, 25th February, 1960.

D. H. M. SAUNDERS,
Clerk of the Council.

Council Offices,
Church Road,
Bracknell, Berks.

CONTRACTS

WEST SUSSEX COUNTY COUNCIL.

TENDERS are invited for the SUPPLY of:—
(a) Text Books and Reading Books
(b) Games Equipment
to the Authority's Schools and other Educational Establishments for the period 1st April, 1960, to 31st March, 1963. Conditions and Forms of Tender may be obtained from the Director of Education, County Hall, Chichester, and completed Tenders must be submitted to the undersigned by 2nd MARCH, 1960.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.

BOROUGH OF POOLE.

CLARENDON ROAD—RECONSTRUCTION.

TENDERS invited for the RECONSTRUCTION of approx. Three-quarters of a Mile of CARRIAGEWAY, FOOTPATHS, KERBING, and incidental works.

Details from Borough Engineer. Two Guineas deposit.

Tenders to me by Noon, 15th FEBRUARY, 1960.

J. G. HILLIER,
Town Clerk.

Municipal Buildings,
Poole.

CITY OF BANGOR.

ANNUAL TENDERS.

TENDERS are invited for the SUPPLY and DELIVERY of the UNDERMENTIONED MATERIALS for a period from 1st April, 1960, to 31st March, 1961:

(1) Stone for Macadam, Tarmacadam and Chippings.
(2) Road Surface Dressing (Tar and Cold Emulsions).

Tenders and Contracts will have to conform with the Standing Orders of the Council.

Tenders are to be sent in plain sealed envelopes, endorsed "Tenders for ——," stating the class of materials tendered for.

Particulars and Form of Tender can be obtained from the Offices of the City Surveyor, Town Hall, Bangor, Caernarvonshire, and Forms of Contract and Standing Orders can also be inspected in the same office.

Tenders are to be received by the City Surveyor, Town Hall, Bangor, not later than 12 Noon on FRIDAY, 12th February, 1960.

The Council does not bind itself to accept the lowest or any Tender; and also reserves the right to accept the whole or any part of the Tender.

W. ELWYN E. JONES,
Town Clerk.

Town Hall,
Bangor, Caerns.

MEXBOROUGH URBAN DISTRICT COUNCIL.

CONTRACT FOR SUPPLIES.

TENDERS are invited for the FOLLOWING MATERIALS, delivered Mexborough, for the period of 12 months ending 31st March, 1961:—

Dry and Tarred Slag.
Gravel, Sand, etc.
Concrete Kerb, etc.

Form of Tender may be obtained from the Surveyor, Council Offices, Adwick Road, Mexborough, on receipt of a stamped addressed envelope.

No Tender will be received except in a plain sealed envelope, which shall be endorsed "Tender for Materials," but shall not bear any name or mark indicating the sender. Sealed Tenders must be delivered at the office of the undersigned not later than 12 Noon on the 27th FEBRUARY, 1960.

The lowest or any Tender not necessarily accepted.

S. H. E. CRANE,
Clerk of the Council.

Council Offices,
Adwick Road,
Mexborough.
28 January, 1960.

BEDFORDSHIRE EDUCATION COMMITTEE.

TENDERS invited for SUPPLYING, MAKING and FIXING CURTAINS and VENETIAN BLINDS at the NEW KEMPSTON COUNTY SECONDARY SCHOOL.

Further particulars from the DIRECTOR OF EDUCATION, Shire Hall, Bedford, by 15th FEBRUARY, 1960.

LEEDS REGIONAL HOSPITAL BOARD.

TO ENGINEERING CONTRACTORS.

FIXED-PRICE TENDERS are invited for CARRYING OUT the INSTALLATION ONLY of ONE NEW CORNISH BOILER and EQUIPMENT at MANYGATES HOSPITAL, Wakefield.

Applications for Form of Tender and Specification and Drawings, accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona-fide Tender and other Contract documents), must be made to the Architect to the Board at the undermentioned address not later than 12 Noon on Wednesday, 17th February, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the Drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of MESSRS. PASHLER AND PARTNERS, Consultant Engineers, City Chambers, Infirmary Street, Leeds, 1.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 16th March, 1960.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park Parade,
Harrogate,
Yorks.

LEEDS REGIONAL HOSPITAL BOARD.

TO HEATING CONTRACTORS.

FIXED-PRICE TENDERS are invited for CARRYING OUT the COMPLETION of STEAM RING MAIN and HEATING to OLD WING at CLAYTON HOSPITAL, Wakefield.

Applications for Form of Tender and Specification and Drawings, accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona-fide Tender and other Contract documents), must be made to the Architect to the Board at the undermentioned address not later than 12 Noon on Wednesday, 17th February, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the Drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of MESSRS. PASHLER AND PARTNERS, Consultant Engineers, City Chambers, Infirmary Street, Leeds, 1.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 16th March, 1960.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park Parade,
Harrogate,
Yorks.

CONTRACTS

COUNTY BOROUGH OF CROYDON.

TENDERS are invited for WINDOW CLEANING at the Town Hall and other municipal buildings for the 12 months commencing 1st April, 1960.

Particulars and Form of Tender from the Borough Engineer, Town Hall, Croydon.

Tenders must reach me by FRIDAY, 26th February, 1960.

E. TABERNER,
Town Clerk.

BOROUGH OF NEWCASTLE-UNDER-LYME.

RECONSTRUCTION OF RETAINING WALL—HASSELL STREET SCHOOL.

TENDERS are invited for the FOLLOWING WORKS: Reconstruction of approx. 80yd. of Retaining Wall, average height of retained material 6ft.; 15yd. of Underpinning to existing School Buildings, and Demolition and Reconstruction of 20 lin. yd. of existing 9ft. 6in. high School Wall, together with ancillary works.

Plans may be seen, and documents obtained, at the Borough Surveyor's Office, Lancaster Building, High Street, Newcastle, Staffs.

Tender forms, in duplicate, and Bills of Quantities must be returned to the Town Clerk's Office, Newcastle, Staffs., not later than 12 Noon on FRIDAY, 12th FEBRUARY, 1960, in a sealed envelope endorsed "Tender—Reconstruction of Hassel Street School Wall."

The lowest Tender or any other will not necessarily be accepted.

C. J. MORTON,
Town Clerk.

CITY OF CARDIFF CORPORATION WATERWORKS.

LLANDEGFEDD WATER SCHEME—SECTION B.

CONTRACT NO. B3—WATER MAINS.

SUPPLY OF PIPES AND SPECIALS.

TENDERS are invited for the MANUFACTURE, SUPPLY and DELIVERY of the VARIOUS PIPES and SPECIALS required for the ABOVE SCHEME, as follows:

SUB-CONTRACT NO. B.3 (1)—36in., 30in. and 24in. dia. Steel Pipes and Specials with Concrete Lining and Welded Joints.
SUB-CONTRACT NO. B.3 (2)—24in. dia. Spun-iron Pipes with Tyton Joints and Cast-iron Specials.
SUB-CONTRACT NO. B.3 (3)—60in., 42in. and 30in. dia. Prestressed Concrete Pipes and Specials.

Bills of Quantities, Specification, General Conditions and Form of Tender may be obtained from the Engineer, Cardiff Corporation Waterworks, Resident Engineer's Office, Sluvad, Panteg, near Pontypool, Mon., upon payment of a deposit of £2 2s. for each set of documents. Cheques should be made payable to Cardiff Corporation and crossed "Not negotiable & Co." The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Llandegfedd Water Scheme, Section B, Contract No. B.3, Sub-Contract 1, 2 or 3," as the case may be, addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than 22nd FEBRUARY, 1960.

The envelope must not bear the name of, or any mark indicating, the identity of the tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
January, 1960.

BALLYMONEY RURAL DISTRICT COUNCIL.

COUNTY ANTRIM, NORTHERN IRELAND.

REGIONAL WATER SUPPLY SCHEME.

CONTRACT NO. 8A.

TENDERS are invited from competent and experienced building and civil engineering contractors for the CONSTRUCTION of a FILTER HOUSE, etc., situated in the Townland of Corkey Middle, 12 miles east of Ballymoney.

The works comprise:

Two Settling Tanks of approx. 200,000 gallons capacity.
Four Filters each 20ft. x 10ft. x 11ft. deep.
Filter House on Two Floors, Ground Floor approx. 2,000 super. ft.

Forms of Tender, Specification, and Bills of Quantities may be obtained from the Council's Consulting Engineers, MESSRS. WATERHOUSE AND ROUNTHWAITE, 58 Howard Street, Belfast, and 165 Westmorland Road, Newcastle upon Tyne, 4, on payment of a deposit of Five Guineas, which sum will be refunded on receipt of a bona-fide Tender.

Conditions of Contract and Drawings may be seen at the above Offices and at the Council Offices, Riada House, Charles Street, Ballymoney, during normal office hours.

Tenders, in plain sealed envelopes endorsed "Regional Water Scheme—Contract No. 8A," but which must not bear any name or mark indicating the sender, must be delivered at my Office not later than 10 a.m. on 3rd MARCH, 1960. In such Tenders the period of completion must be clearly stated; also the Bills of Quantities and the Schedules of Rates for Labour and Materials properly completed.

The Council does not bind itself to accept the lowest or any Tender.

JAMES HANNA,
Clerk to the Council.

Council Houses,
Riada House,
Charles Street,
Ballymoney,
Co. Antrim,
Northern Ireland.

BEDFORDSHIRE EDUCATION COMMITTEE.

TENDERS invited for the SUPPLY and DELIVERY of the FOLLOWING:

(a) Woodwork and Metalwork Tools.
(b) Timber for Instructional Purposes.

Further particulars and Forms of Tender are obtainable from the DIRECTOR OF EDUCATION, Shire Hall, Bedford, by 15th FEBRUARY, 1960.

TRINITY HOUSE, LONDON.

TENDERS are invited for the SUPPLY of the FOLLOWING:

Boat Hooks, Cleaning Cloths, Disinfectants, Soaps, Sundry Cleaning Stores, Brooms and Brushes, Flags and Bunting, Glassware and Crockery, Cotton Waste, Chamois Leathers, and Metal Polish.

Forms of Tender, available from the SECRETARY, Trinity House, Tower Hill, London, E.C.3, must be delivered by 2 p.m. on WEDNESDAY, 24th February, 1960.

CONTRACTS

BEDFORDSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

ANNUAL CONTRACTS, 1960/61.

TENDERS are invited for the FOLLOWING:

Supply and Lay Single Course and Two-coat Tarmacadam, Open and Close Texture Bitumen and Tar Carpets, Gravel Asphalt Base Course and Wearing Course, Hot Sand Asphalt Carpet, and Fine Cold Asphalt by Barber-Greene machine.
Supply of Bitumen Slag and Granite, Tarred Slag and Granite, Gravel Asphalt, Fine Cold Asphalt, Concrete Kerbs, Concrete Pipes and Tubes, Granite (including precoated chippings), Gravel, etc., Portland Cement, Slag (including precoated chippings), Stoneware Pipes (2nds), Tar (including mechanical spraying), Cold Bitumen Emulsion.
Hire of Lorries, Road Rollers and Verge Cutting Equipment.
Schedule Contract for Kerbing, Haunching, Drainage, Footpaths and Culverts.

Forms of Tender from the County Surveyor, Dents Road, Bedford.

Completed Tenders must be submitted in endorsed envelopes to the Clerk of the County Council, Shire Hall, Bedford, on or before TUESDAY, 1st March, 1960.

GEORGE BREWIS,
Clerk of the County Council.

Shire Hall,
Bedford.
28th January, 1960.

COUNTY BOROUGH OF HUDDERSFIELD.

TECHNICAL TEACHERS' TRAINING COLLEGE STUDENTS' HOSTEL.

TENDERS are invited for the ERECTION of the FIRST of TWO HOSTELS, each consisting of a Nine-storey Block, with Ancillary Accommodation for 173 Students.

R.I.B.A. Form of Contract and Drawings may be inspected at the Borough Architect's Office.

Contractors wishing to tender for the above work should forward a deposit of £2 2s. to the Borough Architect, High Street Buildings, Huddersfield, before FRIDAY, the 12th February, 1960. Bills of Quantities and Form of Tender will be forwarded on the 22nd February, 1960, and they should be returned, in the envelopes provided, to the undersigned not later than 10 a.m. on 28th MARCH, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield.
February, 1960.

COUNTY BOROUGH OF BIRKENHEAD.

WATER AND PUBLIC LIBRARIES DEPARTMENTS.

TENDERS are invited for the SUPPLY of UNIFORM CLOTHING, CAPS, MACKINTOSHES and DUST COATS for the Employees of the above Departments.

Form of Tender and Conditions, etc., from the WATER ENGINEER, 601 Borough Road, Birkenhead.

Closing date for Tenders—7th MARCH, 1960.

BOROUGH OF BILSTON.

LOWERING OF COSELEY ROAD (A.463) BENEATH BILSTON STATION RAILWAY BRIDGE AND UNDERPINNING OF BRIDGE FOUNDATIONS.

TENDERS are invited for the LOWERING of COSELEY WOOD (A 463) beneath Bilston Station Railway Bridge and Underpinning of Bridge Foundations. Only Tenders from contractors experienced in this type of work will be considered.

Applications for copies of Form of Tender, Conditions of Contract, Specification and Bills of Quantities should be made to the Borough Engineer, Municipal Buildings, Hall Street, Bilston, Staffs., not later than 19th FEBRUARY, 1960, enclosing a cheque for a deposit of Five Guineas made payable to Bilston Corporation, which sum will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Drawings may be inspected by appointment at the Offices of the Borough Engineer.

A closing date for the submission of Tenders will be given when the documents are supplied by the Borough Engineer.

The Council does not bind itself to accept the lowest or any Tender.

A. M. WILLIAMS,
Town Clerk.

Town Hall,
Bilston, Staffs.
January, 1960.

BOROUGH OF MAIDENHEAD.

SEWAGE WORKS EXTENSION—STAGE II.

CONTRACT NO. 3.

The COUNCIL invites TENDERS for the CONSTRUCTION of FOUR 55ft. dia. REINFORCED CONCRETE TANKS; FOUR 100ft. dia. FILTERS; a PUMPING STATION approx. 22ft. x 10ft.; approx. 150 lin. yd. of CONCRETE ROAD, the PROVISION and LAYING of SPUN-IRON and CONCRETE PIPES of 4in. to 33in. dia., and all incidental works.

Drawings may be seen at, and Tender documents obtained from, the Office of the Borough Engineer and Surveyor, 14 Crauford Rise, Maidenhead, on payment of a deposit of Three Pounds, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Tenders, in plain sealed envelopes endorsed "Sewage Works Extension—Stage II, Contract No. 3," and bearing no mark or indication of the sender, must be delivered to me not later than Noon on THURSDAY, 10th March, 1960.

The Council does not bind itself to accept the lowest or any other Tender.

STANLEY PLATT,
Town Clerk.

Guildhall,
Maidenhead, Berks.
January, 1960.

HAVERHILL URBAN DISTRICT COUNCIL.

HAVERHILL, SUFFOLK.

TENDERS, on a Fixed-price Basis, are invited for the ERECTION of SEVEN BUNGALOWS in One Block, with ancillary works.

Bills of Quantities and Drawing may be obtained from MR. J. C. MYERS, of 23 High Street, Haverhill, from SATURDAY, 30th January, on deposit of Three Guineas, and Tenders must reach the CLERK OF THE HAVERHILL U.D.C., Council Offices, Haverhill, not later than Noon on MONDAY, 15th February.

The Council does not bind itself to accept the lowest or any Tender.

CONTRACTS

COUNTY BOROUGH OF SWANSEA.

PRIVATE STREET WORKS.

The Corporation invites FIXED-PRICE TENDERS for the CARRYING OUT of PRIVATE STREET WORKS in ST. JOHN'S ROAD, MANSELTON.

The Works comprise 615 cu. yd. of Excavation, 2,278 sq. yd. of Bituminous Macadam Surfacing on Existing Hardcore, 261 lin. yd. Kerbing, 392 sq. yd. of Concrete Flag Paving, together with Verges, Surface Water Drainage, Lighting and other incidental Works.

Bills of Quantities, Forms of Tender, Specification and Conditions of Contract can be obtained from, and Drawings inspected at, the office of the Borough Engineer and Surveyor, St. Faith's Hall, St. Helens Road, Swansea, on deposit of £2 (Two Pounds), which will be returned on receipt of a bona-fide Tender (not subsequently withdrawn).

Tenders, in plain sealed envelopes bearing no name or mark indicating the sender and endorsed "Private Street Works, Contract 52—St. John's Road," may be sent by Registered Post, or delivered by hand in exchange for a receipt to the undersigned not later than THURSDAY, 25th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

T. B. BOWEN,
Town Clerk.

The Guildhall,
Swansea.
January, 1960.

THE KENT COUNTY COUNCIL.

TENDERS are invited by not later than Noon on 15th FEBRUARY, 1960, for the SUPPLY and ERECTION of TWENTY-ONE 200/280-W SODIUM CUT-OFF LANTERNS mounted on 35ft. Steel Columns at WROTHAM and AYLESFORD.

Tender Forms and Plans are obtainable from the COUNTY SURVEYOR, County Hall, Maidstone, on payment of £2 2s. deposit, returnable upon receipt of a bona-fide Tender.

BOROUGH OF KENDAL.

SHAP ROAD INDUSTRIAL AREA.

TENDERS FOR ROADS AND SEWERS.

The CORPORATION invite TENDERS for the CONSTRUCTION of the ROADS AND SEWERS required in connection with the Development of approx. 20 acres of land as an Industrial Area at Shap Road.

Tender documents may be obtained from the Borough Engineer and Surveyor, Municipal Offices, Lowther Street, Kendal, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender. Plans may be inspected at the above address during normal office hours.

Tenders, enclosed in a plain, sealed envelope endorsed "Industrial Area," should be received by the undersigned not later than 10 a.m. on THURSDAY, the 18th February, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender, nor will any reimbursement of cost be made to any contractor in connection with the preparation or submission of his Tender.

F. A. RENNISON,
Town Clerk.

BOROUGH OF TORQUAY.

ASPHALT SURFACING OF ROADWAYS.

TENDERS are invited for the PROVISION and MECHANICAL LAYING of HOT ROLLED ASPHALT on VARIOUS ROADS in the Borough, involving approx. 22,000 sq. yd. of Surfacing.

Bills of Quantities, Specification, Conditions of Contract and Form of Tender may be obtained from the Borough Engineer, Town Hall, Torquay, on payment of £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender.

Tenders, which must be submitted in the manner indicated in the Contract documents, must reach the Town Clerk not later than Noon on SATURDAY, 20th February, 1960.

T. ELVED WILLIAMS,
Town Clerk.

Town Hall,
Torquay.

ESHER URBAN DISTRICT COUNCIL.

EXTERNAL PAINTING OF 38 COUNCIL HOUSES.

CONTRACT NO. 297.

TENDERS are invited from painting contractors for the EXTERNAL REPAINTING of 20 HOUSES, SIX BUNGALOWS and 12 FLATS at GRANGE ROAD and BRENDE GARDENS, West Molesey.

The Form of Tender, Conditions of Contract and Specification may be obtained from the Engineer and Surveyor, Council Offices, Esher, on payment of a deposit of One Guinea, which will be refunded on receipt of a bona-fide Tender, together with the return of all documents in good condition.

Tenders, on the prescribed form, enclosed in the envelope provided, endorsed "Contract No. 297—External Repainting," and bearing no name or mark indicating the sender, must be returned to the undersigned and received by him not later than 5 p.m. on TUESDAY, 15th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FREDERICK EDWARDS,
Clerk of the Council.

Council Offices,
Esher, Surrey.
25th January, 1960.

LEEDS REGIONAL HOSPITAL BOARD.

TO HEATING CONTRACTORS.

FIXED-PRICE TENDERS are invited for CARRYING OUT the INSTALLATION of a NEW STEAM BOILER and Ancillary Plant (including the Taking Over of Forward Order for Boiler already placed) at CASTLE HILL HOSPITAL, COTTINGHAM, East Yorkshire.

Applications for Form of Tender and Specification and Drawings, accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona-fide Tender and other Contract documents), must be made to the Architect to the Board, at the undermentioned address, not later than 12 Noon on WEDNESDAY, 10th February, 1960. Cheques should be made payable to the Leeds Regional Hospital Board, and crossed.

A copy of the Drawings, Conditions of Tender and Conditions of Contract may be inspected at the Office of the Architect to the Board, or at the Offices of MESSRS. LEAKE AND WILSON, Consultant Engineers, 27 High Street, Hull.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 9th March, 1960.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park Parade,
Harrogate, Yorks.

CONTRACTS

ROYAL COUNTY OF BERKSHIRE.

RECONSTRUCTION OF BROAD LANE (PART), BRACKNELL.

TENDERS are invited for the RECONSTRUCTION of PART of BROAD LANE, Bracknell, a length of 530 lin. yd. The Scheme provides for approx. 1,350 cu. yd. of Excavation, Concrete Foundations, Gravel Asphalt Surfacing, Kerbing, Footways, Drainage and incidental Works.

Drawings may be inspected at, and Conditions of Contract, Specification, Bills of Quantities and Form of Tender obtained from, the COUNTY SURVEYOR, Shire Hall, Reading, on payment of a deposit of £2 2s., returnable upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders should be returned in the envelope provided not later than 9 a.m. on THURSDAY, 18th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

CITY OF LEICESTER.

GLEN PARVA ESTATE.

TENDERS are invited from contractors experienced in similar work for the FOLLOWING:

Approx. 7,460 sq. yd. Macadam Footway.
Approx. 7,400 lin. yd. Precast Concrete Kerbs and Edging Kerbs.
Approx. 5,530 sq. yd. Turfing and Soiling of Verges and Open Spaces.

Full details and Forms of Tender are available from the undersigned on payment of One Guinea, refundable on receipt of a bona-fide Tender.

Tenders to be returned in the official envelope by 4.30 p.m., MONDAY, 7th March, 1960.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

URBAN DISTRICT COUNCIL OF AIREBOROUGH.

PRIVATE STREET WORKS.

TARN VIEW GARDENS, YEADON.

TENDERS are invited for the MAKING-UP of TARN VIEW ROAD, SUNNYBANK CRESCENT and VICTORIA TERRACE, Yeadon (total approx. length 1,500ft.), with P.C. Concrete Flagged Footpath, Pitched Carriageway Surfaced with Bituminous Macadam, Surface Water Drainage and other ancillary Works.

Specification, Bill of Quantities and Form of Tender may be obtained from and General Conditions of Contract inspected at the Engineer and Surveyor's Office, Micklefield House, Rawdon, near Leeds, on payment of a deposit of £3 3s., which will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn.

Tenders must be delivered to the undersigned, in a plain sealed envelope, endorsed "Tarn View Gardens—Private Street Works," not later than Noon on the 15th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

RALPH H. HULME,
Clerk of the Council.

Micklefield House,
Rawdon,
Near Leeds.
29th January, 1960.

BEDWORTH URBAN DISTRICT COUNCIL.

EXHALL INDUSTRIAL SITE—CONTRACT NO. 2.

ROADS AND SEWERS—STAGE I.

TENDERS are invited for CARRYING OUT the WORKS, which comprise the FOLLOWING:—

(i) Roads with Footpaths, Kerbs and Surfacing:
  (a) 24ft. Carriageway, approx. 280 lin. yd.
  (b) With Kerb Foundation and Road Base only, 24ft. and 18ft. Carriageway, total length approx. 610 lin. yd.
  (c) Hardcore Access Road, 12ft. wide, approx. 215 lin. yd.
  (d) Street Lighting and other ancillary works.
(ii) Sewers:
  (a) Foul Water Sewer.—6in.-12in. dia. Salt Glazed Ware, approx. 600 lin. yd., complete with Brick and Precast Concrete Manholes.
  (b) Surface Water Sewer.—Spun-Concrete Pipe, maximum size 36in. dia., approx. 1,050 lin. yd., complete with Brick and Precast Concrete Manholes.
(iii) The Resoration of Surfaces and the Maintenance of the Works for a period of 12 months.

Copies of the General Conditions of Contract, Specification, Bill of Quantities, Drawings and Form of Tender may be obtained from SIR HERBERT HUMPHRIES AND McDONALD, Consulting Engineers, Park Chambers, 276 Monument Road, Edgbaston, Birmingham, 16, on the deposit of 10 Guineas (which will be returned on the receipt of a bona-fide Tender, not subsequently withdrawn), and the return of all documents and Drawings. Cheques must be made payable to Bedworth Urban District Council.

Particulars of the proposed works can be inspected daily between 9.30 a.m. to 12.30 p.m. and 2 p.m. to 5 p.m., Monday to Friday inclusive, at the Offices of the Consulting Engineers, and at the Office of the Engineer and Surveyor, Council Offices, Bedworth. Information concerning the Drawings and documents can only be obtained from the Consulting Engineers.

NOTE.—The Tender, together with the priced Bill of Quantities enclosed separately in the proper endorsed envelopes provided for the purpose, must be sealed and delivered to the Clerk of the Council, Council Offices, Bedworth, not later than Noon on MONDAY, 14th March, 1960. Tenders and/or documents received after that time will not be considered.

The Council do not undertake to accept the lowest or any Tender.

S. G. DEEMING,
Clerk of the Council.

Council Offices,
Bedworth.
January, 1960.

ULVERSTON RURAL DISTRICT COUNCIL.

PROVISION OF NEW COUNCIL OFFICES.

Enquiries are invited from builders desirous of TENDERING for the CONVERSION of the DETACHED RESIDENCE known as "TODBUSK," situate at SPRINGFIELD ROAD, Ulverston (North Lancashire), into OFFICE ACCOMMODATION for the ABOVE-NAMED COUNCIL.

A brief outline of the Work involved will be supplied in the first instance, and if the contractor should then wish to submit a Tender, the necessary documents and Drawings will be supplied.

Names and addresses must be lodged with the undersigned by First Post on THURSDAY, the 18th February, 1960.

F. D. YOULE,
Clerk of the Council.

Clerk's Department,
Town Hall,
Ulverston,
Lancs.

CONTRACTS

NEWBURY RURAL DISTRICT COUNCIL.

COLD ASH SEWERAGE.

(AMENDED ADVERTISEMENT.)

The Council re-invite TENDERS from experienced public works contractors for the CONSTRUCTION of approx. 6,100 lin yd. of 9in. and 890 lin yd. of 6in. dia. GLAZED STONEWARE PIPE SEWERS, together with Concrete Tube Manholes, and other incidental works.

Copies of the Form of Tender, Specification, Bills of Quantities and Drawings may be obtained from the Engineers, MESSRS. WILLCOX, RAIKES AND MARSHALL, 33 Great Charles Street, Birmingham, 3, on and after the 4th FEBRUARY, 1960, on payment to them by cheque (drawn in favour of the Council) of a deposit of Five Guineas, which will be refunded on receipt of a bona-fide Tender supported by priced Bills of Quantities, if required, and the return of all documents and Drawings.

Tenders, on the form supplied, together with particulars of experience, value of similar Contracts recently carried out, and the names of the Engineers responsible for them, are to be delivered to the undersigned, in the plain sealed envelope provided, not later than 12 o'clock Noon on MONDAY, the 29th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

Dated this 4th day of February, 1960.

T. J. FISHER,
Clerk of the Council.

Council Offices,
Phoenix House,
50 Bartholomew Street,
Newbury, Berks.

THE TEES VALLEY AND CLEVELAND WATER BOARD.

STORES, MATERIALS, ETC.

The Board invites TENDERS for the SUPPLY during the year ending the 31st March, 1961, of the UNDERMENTIONED ITEMS:—

(1) Spun-Iron Concrete-lined Pipes, 3in.-27in. dia.
(2) Spun-Iron Concrete-lined Pipes with Tyton Joints, 3in.-27in. dia.
(3) Cast-Iron Concrete-lined Pipes, 25in. to 36in.
(4) Cast-Iron Specials, Unlined, 3in.-36in. dia.
(5) Cast-Iron Bolted Gland Special Pipes, Unlined, 3in.-36in. dia.
(6) Cast-Iron Surface Boxes.
(7) Precast Concrete Ferrule Box Flags.
(8) Precast Concrete Sections.
(9) Precast Concrete Hydrant Indicator Posts.
(10) Bricks—Common and Engineering.
(11) Waterworks Pattern Double Flanged Sluice Valves.
(12) B.S.S. No. 750-1950 Screw-down Streamline Pattern Hydrants.
(13) Sand and Gravel.
(14) Portland Cement.
(15) Paint.
(16) Painters' and Decorators' Brushes.
(17) Nails, Screws, Nuts and Bolts.
(18) Cleaning Materials.
(19) Protective Clothing.
(20) Stop Cocks and Stop Cock Ferrules.
(21) Shovels and Newcastle Draining Tools.
(22) Electric Lamps.
(23) Bass Brooms, Sweeping Brushes (Unshafted) and Scrubbing Brushes.
(24) Cast-Iron Leadless Split Collars.

STATIONERY:

(25) Section "A"—Ruled and Printed Forms, Plain Stationery, etc.
(26) Section "B"—Ruled and Printed Books.

Parties wishing to tender should apply, in writing, to the undersigned, indicating in which of the above items they are interested, when they will be supplied with the appropriate documents.

Tenders, in plain sealed envelopes, addressed to "The Chairman" at the address of the Board given below, and endorsed "Tender for Items No. or Nos. ——" (as the case may be), are to be received by 10 a.m. on WEDNESDAY, 24th February, 1960.

The Board does not bind itself to accept the lowest or any Tender.

E. A. MORRIS,
Clerk of the Board and
Chief Executive Officer.

Water Board Offices,
Corporation Road,
Middlesbrough.
25th January, 1960.

MUDI RIVER WATER BOARD, NYASALAND.

NOTICE TO CONTRACTORS.

TENDERS are invited from manufacturers for the SUPPLY, DELIVERY and ERECTION of PUMPING PLANT in the BLANTYRE DISTRICT of NYASALAND for Contract No. 3 of the WALKER'S FERRY SCHEME.

The contract includes for the Supply, Delivery and Erection of the following Electric Motor driven Pumping Equipment:—

(i) Submersible Pump/Motor Sets or Spindle-driven Borehole Pump/Motor Sets to pump raw water. Four units. Voltage 400. Capacity: 41,750 g.p.h. Maximum pumping head: 130ft.
(ii) High Lift Pump/Motor Sets to pump treated water at Walker's Ferry. Two units. Voltage 3,300. Capacity: 41,750 g.p.h. Maximum pumping head: 1,385ft.
(iii) High Lift Pump/Motor Sets to pump treated water at Chileka. Two units. Voltage 3,300. Capacity: 41,750 g.p.h. Maximum pumping head: 1,350ft.
(iv) Medium Lift Pump/Motor Sets to pump treated water at Soche. Two units. Voltage 400. Capacity: 41,750 g.p.h. Maximum pumping head: 330ft.

The contract also includes for the supply, delivery and erection of electric motor starters, instruments and controls, raw water screens, station valves, sluices and pipework and other ancillary equipment described in the documents.

All concrete and building work will be carried out under a separate contract.

Tender documents, in triplicate, may be obtained from the Consulting Engineers, Messrs. SCOTT AND WILSON, KIRKPATRICK AND PARTNERS, P.O. Box 154, Blantyre, Nyasaland, or 47 Victoria Street, London, S.W.1, England, on or about the 1st February, 1960, on payment of a deposit of 20 Pounds sterling and in the form of a banker's draft only, in favour of the Mudi River Water Board. This amount will be refunded on receipt of a bona-fide Tender or the return of all contract documents.

Tenders, in sealed packages, shall be endorsed and addressed in the manner stated in the instructions contained in the documents, and shall be delivered at the stated addresses not later than 1400 hours G.M.T. on TUESDAY, 10th May, 1960.

The Mudi River Water Board does not bind itself to accept the lowest or any Tender.

ALEXANDER MILLAR,
A.M.I.C.E., M.I.Mun.E., M.I.W.E.,
Engineer Manager.

Mudi River Water Board,
P.O. Box 369,
Limbe, Nyasaland.
13th January, 1960.

CONTRACTS

BOROUGH OF NEWCASTLE-UNDER-LYME.

GROUP "A" STREET LIGHTING.

NORTH OF NEWCASTLE-UNDER-LYME—NANTWICH—TARPORLEY—TARVIN TRUNK ROAD, A.52.

TENDERS are invited for the SUPPLY, DELIVERY and INSTALLATION of 23 200-W SODIUM VAPOUR GROUP "A" LIGHTING UNITS, including 30ft. mounting height Plain Tubular Steel Columns, 200-W Sodium Lanterns, Lamps, and ancillary equipment.

Plans may be inspected, and Tender documents obtained from the Borough Engineer, Lancaster Building, High Street, Newcastle, Staffs.

Tenders must be returned to the undersigned, in the envelope provided, and endorsed "Tender for Group 'A' Lighting, Trunk Road A.52," to be received not later than Noon on MONDAY, 7th March, 1960.

C. J. MORTON,
Town Clerk.

BOROUGH OF SALTASH.

GRENFELL AVENUE FIFTH EXTENSION HOUSING SITE—CONTRACT 1/1960.

TENDERS are invited for the ERECTION of 20 TWO-BEDROOM HOUSES and 12 GARAGES on the above-named site.

Drawings and Conditions of Contract may be seen, and Bills of Quantities and Forms of Tender obtained on application to the Borough Surveyor, MR. A. de BARR, A.M.I.C.E., M.I.Mun.E., Church House, Saltash.

A deposit of Two Guineas, in the form of a crossed cheque, is required, which will be returned on receipt of a bona-fide Tender.

The Council is not bound to accept the lowest or any Tender.

Tenders, in sealed envelopes which must not bear any indication of the sender, and endorsed "Tender for Houses and Garages 1/1960," to be sent to the undersigned to arrive not later than Noon on MONDAY, 29th February, 1960.

A. GORDON BELLINGHAM,
Town Clerk.

Church House,
Saltash.

BOROUGH OF SURBITON.

BRANCH LIBRARY AND COMMUNITY CENTRE, HOOK.

Contractors are invited to submit their names for permission to TENDER for the ABOVE-MENTIONED BUILDING WORK.

The Contract comprises the Construction of a Light Steel-framed Library and Assembly Hall and various Ancillary Rooms of Load-bearing Construction.

The Architect is CLIFFORD CULLINN, O.B.E., F.R.I.B.A., M.T.P.I., and the Quantity Surveyors, MESSRS. DEARLE AND HENDERSON.

The contractors should indicate in their applications details of recent similar work they have executed and names and particulars should be received by the undersigned not later than Noon on the 16th FEBRUARY, 1960.

Bills of Quantities will be posted out on the 25th February, 1960, and Tenders will be due in on the 25th March, 1960.

JOHN H. A. CRUNDELL,
Town Clerk.

Council Offices,
Surbiton.

BOROUGH OF WORKSOP.

PROPOSED SURFACE WATER SEWERS, BEAVER PLACE, EASTGATE, GATEFORD ROAD AND CARLTON ROAD, WORKSOP.

TENDERS are invited from experienced civil engineering contractors for the REMOVAL of an EXISTING SURFACE WATER SEWER in BEAVER PLACE, EASTGATE and GATEFORD ROAD, and its REPLACEMENT by a NEW SEWER, 39in. to 63in. in dia.; also for the CONSTRUCTION of a NEW SURFACE WATER SEWER in CARLTON ROAD, 24in. to 27in. dia.

Plans may be inspected and Conditions of Contract, Specification and Bills of Quantities may be obtained from the Borough Engineer, Park House, Worksop, upon payment of a deposit of £5 5s., which will be refunded upon receipt of a bona-fide Tender and the return of all documents supplied.

Tenders, in envelopes provided, must be delivered to the undersigned not later than Noon on WEDNESDAY, the 2nd March, 1960.

The lowest or any Tender will not necessarily be accepted.

R. C. PHARAOH,
Town Clerk.

Town Hall,
Worksop.

IRLAM URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED to the Council for the year ending 31st March, 1961, viz.: Salt Glazed Ware Pipes, Broken Stone, Chippings, Bitumen Macadam, Tarmacadam, Concrete Flags, Concrete Kerbs and Channels, Electric Lamps, Petrol.

Forms of Tender and all necessary information may be obtained from the Engineer and Surveyor, Council Offices, Irlam, Manchester.

TENDERS, on official forms only, enclosed in sealed envelopes supplied with the Tender Forms, must be delivered to the CLERK OF THE COUNCIL, Council Offices, Irlam, not later than SATURDAY, 27th FEBRUARY, 1960. The envelope should not bear any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender, and reserve the right to accept any Tender in part only.

CRICKLADE AND WOOTTON BASSETT RURAL DISTRICT COUNCIL.

ERECTION OF 10 HOUSES AND 10 BUNGALOWS (BRICK), LYNEHAM.

TENDERS are invited for the ABOVE, including Site and Substructure Works, Drains, Water Services, Fences, Finishing Carpet to Carriageway, and complete Making-up of Footpaths, in accordance with Drawings, Specification, and Bills of Quantities, prepared by MR. J. C. GRINDLEY, A.M.I.C.E., Engineer and Surveyor, at the address below.

The Conditions of Contract and the Layout Drawing may be seen at the Office of the Engineer and Surveyor, from whom the House Drawings, Specifications, Bills of Quantities and Form of Tender may be obtained on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender and return of all documents.

Tenders, in plain sealed envelopes endorsed "Ten Houses and Ten Bungalows, Lyneham," must be delivered to the undersigned not later than 10 a.m. on TUESDAY, the 8th March, 1960.

W. J. HOSIER,
Clerk of the Council.

Wootton Bassett,
Wilts.

CONTRACTS

ISLE OF WIGHT COUNTY COUNCIL.

TENDERS are invited for the SUPPLY of the FOLLOWING ITEMS during the 12 months commencing the 1st April, 1960:—

(1) Broken Stone, Hardcore, Gravel, Clinker, Ashes, Aggregates for Concrete, Shingle and Sand, Blockstone and Rubble—all delivered to roadside.
(2) Gravel Aggregates delivered to roadside.
(3) Tar and Bitumen Binders.
(4) Tar and Bituminous Macadam, Tar or Asphalt Dense Surfacing, and Fine Cold Asphalt Materials (Supplying or Supplying and Spreading).
(5) Lorry Hire, per hour.
(6) Road Roller Hire.
(7) Haulage, per ton and per cu. yd.
(8) Tools.
(9) Porous Stoneware, Concrete and Pitch Fibre, Pipes, Cement and Bricks.
(10) Granite, Limestone and Slag—all delivered to quays.

Form of Tender and Conditions may be obtained from the undersigned.

Tenders, in plain sealed envelopes, endorsed "Tender for ——," must be delivered to the undersigned not later than 10 a.m. on WEDNESDAY, the 24th February, 1960.

The Council do not undertake to accept the lowest or any Tender.

L. H. BAINES,
Clerk of the County Council.

County Hall,
Newport,
Isle of Wight.
28th January, 1960.

COUNTY BOROUGH OF NORTHAMPTON.

TOWN CENTRE ROADS RECONSTRUCTION—PHASE 2.

Specialist firms wishing to TENDER for the SUPPLY and LAYING BY MACHINE of approx. 3,500 sq. yd. TWO-COURSE HOT ROLLED ASPHALT, in accordance with B.S.594 : 1958, should apply to the Borough Engineer, Guildhall, Northampton, for documents.

Tenders due 19th FEBRUARY.

C. E. VIVIAN ROWE,
Town Clerk.

BOROUGH OF MAIDSTONE.

TENDERS are invited for the SUPPLY of the FOLLOWING during the year ending 31st March, 1961:—

(1) Tarred and Bitumen Ragstone.
(2) Surface Dressing.
(3) Tarmacadam Surfacing of Roads and Paths.
(4) Concrete Kerbs, Slabs and Edging.
(5) Cold Asphalt.
(6) Grit, Ballast and Sand.
(7) Dustbins.
(8) Chestnut Split Fencing.

All goods not otherwise specified are to be in accordance with British Standard Specifications, where such exist.

Specifications and Forms of Tender may be obtained from the Borough Surveyor, Palace Avenue, Maidstone.

Tenders, in plain sealed envelopes, endorsed "Tender for ——," must reach me not later than Noon on the 22nd FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

T. SCHOLES,
Town Clerk.

Town Clerk's Office,
13 Tonbridge Road,
Maidstone.

CITY OF BIRMINGHAM.

SALVAGE COMMITTEE.

TENDERS are invited for the SUPPLY, DELIVERY and COMPLETE ERECTION of a FENCE at the REFUSE DISPOSAL and SALVAGE WORKS, BROOKVALE ROAD, WITTON, Birmingham, 6.

Full details of the requirements of the Corporation may be obtained from the General Manager, Salvage Department, Civic Centre, Broad Street, Birmingham, 1.

Closing date for Tenders, Noon, FRIDAY, 26th February, 1960.

T. H. PARKINSON,
Acting Town Clerk.

Council House,
Birmingham, 1.

WHITWORTH URBAN DISTRICT COUNCIL.

ANNUAL SUPPLIES, 1960-61.

The above Council are prepared to receive TENDERS for the SUPPLY of the UNDERMENTIONED MATERIALS for a period of 12 months commencing 1st April, 1960:—

(1) Concrete Flags and Kerbs.
(2) Bituminous Granite.
(3) Local Broken Stone.
(4) Sand.
(5) Coke and Coal.
(6) Tools and Brooms.

Specifications, Forms of Tender and any other information may be obtained from the Engineer and Surveyor, Council Offices, Whitworth, near Rochdale. Tenders, in plain sealed envelopes, which must not bear any name or description of sender, and endorsed "Annual Supplies," must reach me not later than SATURDAY, 20th February, 1960. The Council do not bind themselves to accept the lowest or any Tender, and reserve the right to accept a portion only of a Tender.

E. R. CRAWSHAW,
Clerk of the Council.

Council Offices,
Whitworth,
Near Rochdale.

BOWLAND RURAL DISTRICT COUNCIL.

DELEGATED COUNTY ROADS.

The District Council, acting as Agents for the West Riding County Council, invite TENDERS for the UNDERMENTIONED PLANT and MATERIALS for the 12 months commencing 1st April, 1960:—

(1) Surface Dressing by Pressure Tanker.
(2) Hired Mechanical Haulage.
(3) Petrol and Diesel Rollers.
(4) Tarred and Bitumenised Macadam.
(5) Dry Broken Stone.
(6) Tar for Surface Dressing.
(7) Bitumen for Surface Dressing.
(8) Salt Glazed Earthenware Pipes and Street Gullies.
(9) Concrete Pipes.
(10) Concrete Kerbs.

Forms of Tender and full particulars may be obtained from Mr. E. BERRY, Surveyor to the Council.

Tenders, in plain sealed envelopes, endorsed "Tenders for ——," and bearing no other mark of identification, must reach the undersigned not later than 12 Noon on SATURDAY, the 27th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. D. TELFORD,
Clerk to the Council.

32 Pimlico Road,
Clitheroe,
Lancashire.

CONTRACTS

MINISTRY OF HOME AFFAIRS.

TENDERS are invited for the SUPPLY of the FOLLOWING STORES, which are required for the Constabulary Forces:—

Batteries, Bulbs, Torch Cases, etc.
Badges and Buttons (Metal).
Badges and Chevrons (Cloth).
Horn Buttons.
Forage Caps.
Gloves.
Nylon Stockings.

Tender Forms may be obtained on application to the Secretary, MINISTRY OF HOME AFFAIRS, Stormont, Belfast, 4. Applicants should indicate clearly for which supply they wish to tender. Preference given to firms on the King's National Roll.

COUNTY BOROUGH OF HASTINGS.

TENDERS are invited for the CONSTRUCTION at the PONSWOOD INDUSTRIAL ESTATE EXTENSION of 3,050 sq. yd. of REINFORCED CONCRETE CARRIAGEWAY, 810 lin. yd. of FOUL and SURFACE WATER SEWER, maximum size 15in. dia., and incidental works, including Manholes, etc.

Drawings may be seen at the Offices of the Borough Engineer, 37 Wellington Square, Hastings, from whom Contract documents may be obtained on payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender.

Tenders, in envelopes provided, must be received by the undersigned not later than 10.30 a.m. on THURSDAY, 25th February, 1960. The priced Bill of Quantities is to be deposited with the Borough Engineer at the same time.

The Council do not bind themselves to accept the lowest or any Tender.

N. P. LESTER,
Town Clerk.

Town Hall,
Hastings.

CITY AND COUNTY OF BRISTOL.

HENLEAZE LAKE FENCING.

TENDERS invited for SUPPLY and ERECTION of 175 lin. yd. of HEAVY MILD STEEL FENCING, 8ft. high, at ABOVE SITE.

Copies of Conditions of Contract, Specification, Bill of Quantities and Drawings from City Engineer and Planning Officer, Cabot House, Deanery Road, Bristol, 1.

Tenders, enclosed in envelope provided, endorsed "Henleaze Lake Fencing," but bearing no mark indicating sender, to CITY ENGINEER AND PLANNING OFFICER by 10 a.m., 19th FEBRUARY.

BOGNOR REGIS URBAN DISTRICT COUNCIL.

SUPPLY OF MATERIALS AND MOTOR HAULAGE.

FIXED-PRICE TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS and MOTOR HAULAGE for the period 1st April, 1960, to 31st March, 1961:—

(1) Tar (Pressure Applied).
(2) Tarmacadam.
(3) Ballast, Sand, Shingle, Bricks.
(4) Cement.
(5) Brooms (Scavenging).
(6) Concrete Paving Slabs, Kerb, Channel and Quadrants.
(7) Plastic Deck Chair Material.
(8) Motor Haulage.
(9) Motor Fuel.

Forms of Tender upon application to E. B. WILLMOTT, Engineer and Surveyor, Town Hall, Bognor Regis.

Tenders, on the form provided, enclosed in the envelope supplied, endorsed "Tender for ——," must be delivered to the Clerk of the Council, Town Hall, Bognor Regis, not later than SATURDAY, 20th February, 1960.

R. W. J. HILL,
Clerk of the Council.

Town Hall,
Bognor Regis.
January, 1960.

BURGESS HILL URBAN DISTRICT COUNCIL.

TENDERS FOR MATERIALS—1ST APRIL, 1960, TO 31ST MARCH, 1961.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING MATERIALS during the period 1st April, 1960, to 31st March, 1961:—

Refined Tar and Bituminous Emulsion.
Salt Glazed Ware Pipes.
Tarmacadam (Granite, Limestone and Slag).
Granite.
Portland Cement.
Decorating Materials and Equipment.
Precast Concrete Kerbs, Paving Slabs and Pipes.
Other Miscellaneous Items.

Forms of Tender and particulars may be obtained from the Engineer and Surveyor at the Council Offices, 32 Church Road, Burgess Hill.

A stamped addressed envelope must accompany all applications.

Tenders, in sealed envelopes, endorsed as directed, must be addressed and delivered to the undersigned by not later than the 17th FEBRUARY, 1960.

STANLEY JEFFS,
Clerk of the Council.

Council Offices,
32 Church Road,
Burgess Hill.
2nd February, 1960.

CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

ANNUAL CONTRACTS, 1960-61.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS:—

Artificial Stone Kerbs.
Artificial Stone Paving Slabs.
Brooms.
Cold Asphalt.
Crushed Grit for Tar Spraying.
Granite Chippings.
Gully Grates and Frames.
Hydrated Lime.
Manhole Covers and Frames.
Premix Mortar for Paving.
Portland Cement.
Protective Clothing.
Sand.
Tarred Kentish Ragstone.
Tarred Slag Macadam.
Tar, including Emulsion.
Washed and Crushed Aggregate and All-in Ballast.

Tenders, on the prescribed forms, obtainable from the Surveyor, Manor House, The Green, Sidcup, on receipt of a stamped addressed envelope. Tenders must be delivered to the undersigned not later than the 29th FEBRUARY, 1960.

T. W. FAGG,
Clerk of the Council.

Council Offices,
Sidcup Place,
Sidcup.

CONTRACTS

COUNTY BOROUGH OF BURY.

TENDERS invited for SUPPLY and DELIVERY of the FOLLOWING MATERIALS during year ending March, 1961:—

Form No.
(1) Stone Flags, Kerbs and Setts.
(2) Rubble Stone for Pitching, Broken Stone for Ballasting, Crushed Stone for Concrete and Quarry Sand.
(3) Creosote, Bitumen Emulsion and Road Tar.
(4) Portland Cement.
(5) Tarred and Bitumen Macadam and Fine Cold Asphalt.
(6) Chippings.
(7) Concrete Flags, Kerbs and Edgings.
(8) Earthenware Pipes, Gullies, etc.
(9) Bricks.
(10) Paraffin Oil.

Form of Tender, Conditions and Specification from Borough Engineer, Town Hall, Bury. Please state Form Number required.

Sealed Tenders, enclosed in envelope provided, must reach me by 20th FEBRUARY, 1960.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
27th January, 1960.

BOROUGH OF HIGH WYCOMBE.

The CORPORATION invite TENDERS for the SUPPLY of the FOLLOWING MATERIALS for the 12 months ending 31st March, 1961:—

(1) Ballast, Washed Sand, Building Sand, Shingle, etc.
(2) Portland Cement.
(3) Manhole Covers and Frames, Gully Grates and Frames, etc.
(4) Granite and Limestone Tarmacadam.
(5) Concrete Kerb, Flag Paving, etc.
(6) Granite Chippings.
(7) Petrol.
(8) Workmen's Clothing.

Schedules and Forms of Tender may be obtained on application to the Borough Engineer and Surveyor.

Tenders, in plain sealed envelopes, endorsed "Schedule No. ——, Annual Tenders," are to be delivered to the undersigned not later than Noon on TUESDAY, 23rd February, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

J. A. PARKINSON, M.A., A.M.I.C.E.,
Borough Engineer and Surveyor.

BOROUGH OF MAIDSTONE.

RIVERSIDE WALK.

TENDERS are invited for the PROVISION of a FOOTPATH and GENERAL EXCAVATION WORKS to a RIVERSIDE WALK, including Surfacing with Tarmacadam.

Specification and Bills of Quantities may be obtained from the Borough Surveyor, Palace Avenue, Maidstone.

Tenders, in plain sealed envelopes endorsed as directed, must reach the undersigned not later than 10 a.m. on MONDAY, 7th March, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

T. SCHOLES,
Town Clerk.

13 Tonbridge Road,
Maidstone.

BOROUGH OF ROMFORD.

LAND DRAINAGE WORKS—DAGNAM PARK.

TENDERS are invited for the CONSTRUCTION of about 4,500 lin. yd. of 3in. and 6in. Land Drains, with ancillary Works, at this site.

Applications for Tender documents (accompanied by a cheque, value £2 2s., as deposit) should be made to Borough Engineer and Surveyor, Town Hall, Romford.

The closing date for the receipt of completed Tenders will be First Post, TUESDAY, 23rd February.

JOHN E. SYMONS,
Town Clerk.

29th January, 1960.

WARWICK RURAL DISTRICT COUNCIL.

SHREWLEY SEWERAGE AND SEWAGE DISPOSAL SCHEME.

CONTRACT NO. 12.

TENDERS are invited for the LAYING of 3½ miles of 9in. and 6in. SALT-GLAZED WARE SEWERS with CONCRETE TUBE MANHOLES and the CONSTRUCTION of an EJECTOR STATION and of SEWAGE DISPOSAL WORKS, comprising Reinforced Concrete Settling, Digestion and Humus Tanks, Biological Filters, Sludge Drying Beds, Works Pumping Station and Site Roads, Pipelines and Fencing.

The Work will be located in the neighbourhood of Hatton Junction, four miles west of Warwick.

The General Conditions of Contract, Specification and Bill of Quantities may be obtained from the Council's Consulting Engineers, MESSRS. J. D. and D. M. WATSON, MM.I.C.E., 67 Tufton Street, Westminster, London, S.W.1, on and after 19th February, 1960.

Applications must be accompanied by a deposit cheque for Ten Guineas, payable to the Council, which will be refunded only to contractors who submit bona-fide Tenders and return all documents and Drawings.

Sealed Tenders must be endorsed "Tender for Contract No. 12," bear no name or mark indicating the sender, and be delivered to the office of the undersigned not later than Noon on 28th MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

T. W. H. WATKISS,
Clerk of the Council.

Council Offices,
1 Warwick New Road,
Leamington Spa.
February, 1960.

UCKFIELD RURAL DISTRICT COUNCIL.

TENDERS—ROADS AND FOOTPATHS.

TENDERS are invited on a FIXED-PRICE BASIS for the FOLLOWING:—

Uckfield—Construction of 140 lin. yd. of Tarmacadam Carriageway, with Paths.
Crowborough—Surfacing of 1,600 super. yd. of Hardcore Road, with Concrete Paths.
Frant—Surfacing of 520 super. yd. of Hardcore Road.

Contract documents may be obtained from the Surveyor at the Council Offices, on payment of a deposit of Two Guineas, returnable on receipt of a bona-fide Tender and the return of all documents.

Tenders, in the envelopes provided endorsed "Roadworks —Uckfield," must be returned to the undersigned not later than Noon on MONDAY, 7th March, 1960.

The Council are not bound to accept the lowest or any Tender.

D. C. DURRANT,
Clerk of the Council.

Council Offices,
Beacon Road,
Crowborough,
Sussex.

CONTRACTS

BOROUGH OF DUNSTABLE.

ANNUAL TENDERS, 1960-61.

The COUNCIL invites TENDERS for the SUPPLY of the FOLLOWING MATERIALS for the year ending 31st March, 1961:—

(1) Tarmacadam (Slag Aggregate).
(2) Fine Cold Asphalt (Slag Aggregate).
(3) Concrete Aggregates.
(4) Building Sand.
(5) Ashes.
(6) Spent Ballast.
(7) Precast Concrete Kerb.
(8) Precast Concrete Flags.

Particulars and Forms of Tender may be obtained from the Borough Engineer and Surveyor at the address below.

Tenders, in a plain sealed envelope, endorsed "Tenders for Materials," but bearing no distinguishing mark indicating the sender, are to be delivered to me not later than 12 Noon on SATURDAY, the 27th February, 1960.

JACK SMITH,
Town Clerk.

Municipal Offices,
Dunstable, Beds.
4th February, 1960.

BOROUGH OF EPSOM AND EWELL.

LONDON ROAD, EWELL—MINOR IMPROVEMENT.

The Corporation invite TENDERS from public works contractors for the CONSTRUCTION of a FOOTPATH and the REALIGNMENT of KERBING.

The Conditions of Contract, Bill of Quantities, Plan, Form and Conditions of Tender may be obtained from the office of MR. COLIN COBBETT, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Epsom, upon payment of a deposit of £2 2s., which will be returned if a bona-fide Tender is submitted and not subsequently withdrawn.

Tenders must be delivered to me at the address below not later than 12 Noon on MONDAY, 15th February, 1960. No Tender will be received unless it is delivered in a plain sealed envelope endorsed "London Road—Minor Improvement." This envelope must not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

EDWARD MOORE,
Town Clerk.

Town Hall,
The Parade,
Epsom,
Surrey.
January, 1960.

URBAN DISTRICT COUNCIL OF PADIHAM.

TENDERS FOR THE SUPPLY OF STORES.

The above Council invite TENDERS for the SUPPLY of the FOLLOWING MATERIALS required during the 12 months ending 31st March, 1961:—

Earthenware Pipes, Concrete Kerbs and Flags, Tarmacadam, Natural Stone Flags and Kerbs, Tar and Bitumen, Filled Bitumen and Filled Pitch, Creosote Oil, Cement and Lime, Broken Stone and Chippings.
Heavy-bodied White Lead Paint.
Turpentine.
Full Gloss Synthetic Enamel and Undercoating for external and internal use.
Emulsion Paint for internal use.

General Conditions and Forms of Tender may be obtained upon application to Mr. ALAN J. SHAW, Surveyor and Water Engineer, Town Hall, Padiham. All applications must be accompanied by a stamped addressed foolscap envelope.

Tenders, sealed and endorsed "Annual Contracts," must be delivered to the undersigned not later than 28th FEBRUARY, 1960. The envelope must not bear any mark or name indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

W. VEEVERS,
Clerk of the Council.

Town Hall,
Padiham.
January 29th, 1960.

ORPINGTON URBAN DISTRICT COUNCIL.

ANNUAL CONTRACTS, 1960-61.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS and SERVICES for the year commencing April 1st, 1960:—

Contract No. — Description
(1) Precast Concrete Kerbs, Paving Slabs, Quadrants and Edging Boards.
(2) Surface Dressing of Roads and Supply of Tar.
(3) Cold Asphalt.
(4) Lubricating Oils and Greases.
(5) Supplying and Laying of Tar-coated Materials.
(6) Sand and Ballast.
(7) Bituminous Emulsion (Cold).
(8) Petrol and Diesel Oil.

Applications for Form of Tender (which must be accompanied by a stamped addressed foolscap envelope) should be addressed to the Engineer and Surveyor, Civic Offices, The Walnuts, High Street, Orpington.

Completed Tenders must be returned to the undersigned in plain sealed envelopes, which must not bear any name or mark indicating the sender, but endorsed "Tender for Contract No.(s) ——," by not later than 12 Noon on 27th FEBRUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender, and reserves the right to accept the whole or any part of any Tender.

STEPHEN KING,
Clerk and Solicitor.

Council Offices,
Crofton Road,
Orpington, Kent.

HAMBLEDON RURAL DISTRICT COUNCIL.

RECONSTRUCTION OF TWO SLUDGE DRYING BEDS AT CRANLEIGH SEWAGE DISPOSAL WORKS.

TENDERS are invited for the RECONSTRUCTION of TWO SLUDGE DRYING BEDS in CONCRETE, having a total area of 525 sq. yd.

Drawings and General Conditions of Contract may be inspected and Specification, Bills of Quantities and Form of Tender obtained from the Engineer and Surveyor, Council Offices, Bury Fields, Guildford, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender. (Cheques should be made payable to the Hambledon Rural District Council, and crossed Lloyds Bank Limited.)

Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on MONDAY, the 7th March, 1960.

The Council does not bind itself to accept the lowest or any Tender.

Dated this 28th day of January, 1960.

ROBIN J. GARLAND,
Clerk to the Council.

Council Offices,
Bury Fields,
Guildford.

CONTRACTS

ISLE OF ELY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING NEW PLANT:—

One Front Bucket Attachment for Shawnee Warrior Excavator.
Seven 7ft. x 5ft. Roadmen's Shelters.
Two Air-operated Power Rammers.
Six Light Towed Winter Grit Spreaders.
One Small Vibrating Plate.
One Horndraulic Loader for Ferguson Tractor.
Two Tractor-operated Left-hand Grass Mowers.
One Portable Road Breaker.
One 6ft. Sweeper Attachment to Tractor.
One Shawnee Warrior Excavator and Tractor.

Details of the above are obtainable from the County Surveyor, County Hall, March.

Tenders are to be delivered to the undersigned not later than First Post on 16th FEBRUARY, 1960.

R. F. G. THURLOW,
Clerk of the County Council.

County Hall,
March, Cambs.
28th January, 1960.

BOROUGH OF EPSOM AND EWELL.

CONSTRUCTION OF BOUNDARY WALLING.

The Corporation invite TENDERS from experienced contractors for the CONSTRUCTION of BRICK or FLINT BOUNDARY WALLING at the JUNCTION of WILMERHATCH LANE and HEADLEY ROAD, Epsom.

Copies of the Plan, Conditions of Contract, Specification, Bill of Quantities, Form and Conditions of Tender may be obtained from the office of MR. COLIN COBBETT, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Epsom, during working hours, upon payment of a deposit of £2 2s. Deposits will be returned to contractors submitting a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to me at the address mentioned below not later than Noon on MONDAY, the 15th February, 1960, and no Tender will be received and considered unless it is enclosed in a plain sealed envelope endorsed "Walling—Wilmerhatch Lane." This envelope must not bear any mark or name indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

EDWARD MOORE,
Town Clerk.

Town Hall,
The Parade,
Epsom,
Surrey.
January, 1960.

BOROUGH OF EPSOM AND EWELL.

CONSTRUCTION OF FOOTPATH—LIGHT INDUSTRIAL ESTATE.

The Corporation invite Tenders from public works contractors for the CONSTRUCTION of approx. 230 lin. yd. of TARMACADAM FOOTPATH and FENCING.

Copies of the Plan, Conditions of Contract, Specification, Bill of Quantities, Form and Conditions of Tender may be obtained from the office of MR. COLIN COBBETT, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Epsom, during working hours, upon payment of a deposit of £2 2s. Deposits will be returned to contractors submitting a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to me at the address mentioned below not later than Noon on FRIDAY, the 19th February, 1960, and no Tender will be received and considered unless it is enclosed in a plain sealed envelope endorsed "Footpath—Light Industrial Estate." This envelope must not bear any mark or name indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

EDWARD MOORE,
Town Clerk.

Town Hall,
The Parade,
Epsom,
Surrey.
January, 1960.

CITY OF CAMBRIDGE.

CROMWELL ROAD
SURFACE WATER RELIEF SEWER.

TENDERS are invited for the CONSTRUCTION of approx. 500 lin. yd. of 15in. to 27in. internal dia. SPUN CONCRETE TUBED SURFACE WATER SEWER, with Manholes, Connection to Existing Drainage, and the Cleaning and Regrading of approx. 620 lin. yd. of Ditch, together with all appurtenant Works.

Tenders, enclosed in he official envelope supplied, must be received by 3 p.m. on THURSDAY, 10th March, 1960.

Tender documents may be obtained from the City Engineer, Guildhall, Cambridge, on payment of a deposit of £2 2s. (cheques to be payable to Cambridge Corporation), returnable only on the receipt of a bona-fide Tender and the return of all Drawings supplied to tenderers.

The Council do not bind themselves to accept the lowest or any Tender.

ALAN H. I. SWIFT,
Town Clerk.

Guildhall,
Cambridge.
January, 1960.

LEYLAND URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING during the period from 1st April, 1960, to 31st March, 1961:—

(1) Tar and Bituminous Compounds.
(2) Filled Bitumen.
(3) Tarred and Bituminous Macadam.
(4) Granite, Chippings and Crushed Gravel (Surface Dressing).
(5) Clinkers, Ashes and Shale.
(6) Rubble, Broken Stone, Stone, Gravel and Sand.
(7) Concrete Kerbs, Flags and Channels.
(8) Stoneware and Concrete Pipes, Tubes, Gullies and Specials.
(9) Iron Castings—Gully Grates, Manhole Covers and Waterworks Castings.
(10) Plastic Compound for Traffic Lines.
(11) Motor Haulage Hire.

Forms of Tender will be supplied by Mr. F. D. HOWE, M.I.Mun.E., Engineer and Surveyor, Council Offices, Leyland, Lancs., on application, quoting the reference numbers of the forms required.

Tenders, in a plain sealed envelope, bearing no name or mark indicating the sender, endorsed "Tender for Road Materials," must be received by the undersigned on or before the 20th FEBRUARY, 1960. Only Tenders on the prescribed forms will be considered.

The Council do not bind themselves to accept the lowest or any Tender.

W. C. F. GODSELL,
Clerk of the Council.

Council Offices,
Leyland, Lancs.
28th January, 1960.

CONTRACTS

DURHAM COUNTY COUNCIL.

HEALTH DEPARTMENT.

TENDERS are invited for the SUPPLY of WOODBINE CIGARETTES and THICK TWIST TOBACCO to RESIDENTIAL HOSTELS, and for LAUNDRY WORK at RESIDENTIAL HOSTELS, HOMES, DAY NURSERIES and AMBULANCE DEPOTS in the County for the period 1st April, 1960, to 31st March, 1961.

Forms of Tender and a list of the establishments concerned may be obtained from the County Medical Officer, Shire Hall, Durham.

Tenders, in plain sealed envelopes, endorsed "Tender for ——," should be delivered to the undersigned not later than 13th FEBRUARY, 1960.

The County Council reserve the right to accept any Tender in part only.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

BOROUGH OF ILFORD.

CONSTRUCTION OF REFRESHMENT PAVILION, VALENTINES PARK.

TENDERS are invited for the CONSTRUCTION of a REFRESHMENT PAVILION in Valentines Park, Cranbrook Road, Ilford.

Applications (from contractors experienced in reforced concrete work of folded slab form) for the Form of Tender, Bills of Quantities and Drawings should be made in writing to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's Office during normal working hours.

Tenders, sealed in the envelope provided, endorsed "Tender for Refreshment Pavilion, Valentines Park," with no mark of identification as to the sender, must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m. on 23rd FEBRUARY, 1960.

Priced Bills of Quantities must be returned at the same time as the Tender in the special envelope provided.

The Corporation do not bind themselves to accept the lowest or any Tender.

BOROUGH OF LUTON.

EAST HYDE SEWAGE DISPOSAL WORKS.

MINOR CAPITAL WORKS—CONTRACT NO. 1.

TENDERS are invited for the FOLLOWING:—

(a) New 42in. dia. Pipe By-pass between Secondary Sedimentation Tanks and Aeration Tanks, approx. length 90 lin. yd.
(b) Structural Modifications to existing Asbestos-clad Press House.
(c) New Valve Chamber on 10in. dia. Sludge Main.
(d) Net Grit Settling Chamber for Humus Sludge.
(e) New Stored Sludge Pumping Station (capacity 200 g.p.m.), together with approx. 110 lin. yd. of 4in. x 6in. Cast-Iron Sludge Main.
(f) Reconstruction of Weir Sills on existing Separating Tanks.

Documents from Borough Engineer, Town Hall, Luton, on payment of £2 2s. deposit, returnable after receipt of a bona-fide Tender, not subsequently withdrawn. Cheques payable to "Luton Corporation." Tenders to TOWN CLERK, Town Hall, Luton, by Noon, 26th FEBRUARY, 1960.

BOROUGH OF TOTTENHAM.

DEMOLITION—PERIOD CONTRACT.

TENDERS are invited for a PERIOD CONTRACT for all Redevelopment DEMOLITION WORKS in the Borough.

The Contract will extend over one, two or three years, and orders will be issued to the contractor as properties become due for vacation. Payment will be made on a scale of prices related to the cubic capacities of the buildings involved.

Firms wishing to tender can obtain Contract documents (on deposit of £2) from the Borough Engineer, Town Hall, Tottenham, N.15.

Tenders shall be returned not later than WEDNESDAY, 24th February, 1960.

The Council do not undertake to accept the lowest or any Tender.

M. LINDSAY TAYLOR, LL.B.,
Town Clerk.

BOROUGH OF WREXHAM.

TO ROAD-TARRING CONTRACTORS.

The CORPORATION invite TENDERS for SURFACE DRESSING of CARRIAGEWAYS within the Borough, approx. area 70,000-80,000 square yd.

General Conditions, Specification and Form of Tender can be obtained on application to the Borough Engineer and Surveyor, Bodhyfryd, 31 Chester Street, Wrexham.

Sealed Tenders, in the envelope provided, must be delivered to the undersigned not later than 12 Noon on MONDAY, 15th February, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.

MEDWAY WATER BOARD.

MAINLAYING CONTRACTS.

TENDERS are invited for the FOLLOWING MAINLAYING CONTRACTS:

CONTRACT NO. 126: 10in. Main, Berengrave Lane to Gore Pumping Station, Laying at Gillingham, Kent, approx. 3,200yd. of 10in. dia. Spun-iron Water Main, with Tyton Flexible Joints, together with ancillary work.

Tendering documents may be obtained from the Board's Engineer and Manager at the address given below, on payment of a deposit of £3, which will be refunded after receipt of a bona-fide Tender and the return of all documents and Drawings

Tenders are to be delivered to me not later than Noon on TUESDAY, the 8th March, 1960.

The Board does not bind itself to accept the lowest or any Tender.

CONTRACT NO. 134: 21in. Main, Singlewell to Prince of Orange, Laying at Gravesend, Kent, approx. 2,400 yd of 21in. dia. Spun-iron Water Main, with Tyton Flexible Joints, together with ancillary work.

Tendering documents may be obtained from the Board's Engineer and Manager at the address given below, on payment of a deposit of £3, which will be refunded after receipt of a bona-fide Tender and the return of all documents and Drawings

Tenders are to be delivered to me not later than Noon on TUESDAY, the 8th March, 1960.

The Board does not bind itself to accept the lowest or any Tender.

P. COPPENHALL,
Clerk to the Board.

25 Railway Street,
Chatham, Kent.
29th January, 1960.

CONTRACTS

BRECONSHIRE COUNTY COUNCIL.

TENDERS are invited for the SUPPLY and DELIVERY of FURNITURE ITEMS to PRIMARY and GRAMMAR SCHOOLS throughout the County of Brecon. The items required include:—

Tables and Chairs for Juniors and Infants.
Tables and Chairs for Teachers.
Steel Cupboards.
Blackboards and Easels.
Step Ladders.
Clocks.
Mats.
Rest Beds.

Applications for tendering particulars must be addressed to the County Architect, Rhyd Offices, Brecon. The latest date for delivery of Tenders will be 7th MARCH, 1960.

C. M. S. WELLS,
Clerk of the County Council.

County Hall,
Brecon.

BOROUGH OF DAGENHAM.

(1) METAL CASEMENT WINDOWS
(2) REINFORCED CONCRETE FLOORS.

TENDERS are invited for the ABOVE-MENTIONED REQUIREMENTS for the Limbourne Avenue Estate.

Specifications and Forms of Tender may be obtained from the Borough Surveyor.

Tenders, in the official envelopes provided, must be delivered to the undersigned by the 5th MARCH, 1960

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

BOROUGH OF BEDDINGTON AND WALLINGTON.

ANNUAL CONTRACTS, 1960-61.

TENDERS are invited for each or any of the FOLLOWING SUPPLIES of MATERIALS and WORKS:

(1) Re-lay Slab Paving and ancillary works.
(2) Carpet and/or Reconstruct. Macadam Footways, and ancillary works, and Bulk Supplies of Fine Coal Asphalt.
(3) Trench Reinstatements in Macadam Footways, and ancillary works.

Forms and Schedules can be obtained on application to the Borough Engineer, Town Hall, Wallington, Surrey.

A. B. BATEMAN,
Town Clerk.

GRAVESEND BOROUGH COUNCIL.

ANNUAL SUPPLIES—1960/61.

The Council invite TENDERS for the SUPPLY of ARTIFICIAL STONE PAVING and KERBING for the year commencing 1st April, 1960.

Forms of Tender, Specification and Conditions of Contract from Borough Engineer and Surveyor, 6 Woodville Terrace, Gravesend, on receipt of large addressed envelope with 6d. stamp affixed

Tenders, in plain sealed envelope endorsed "Tender for Annual Supplies," to the undersigned not later than FRIDAY, 19th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. W. HARRISON,
Town Clerk.

4 Woodville Terrace,
Gravesend.
February, 1960.

CITY OF ST. ALBANS.

HARDSTANDING-MARSHALSWICK ESTATE.

TENDERS are invited for CONSTRUCTING a HARDSTANDING of approx. 800 sq. yd. in HARD CORE and TARMACADAM

Applications for Tender documents should be made to the City Engineer and Surveyor, 16 St. Peters Street, St. Albans.

Tenders must be returned to the undersigned not later than Noon on 25th FEBRUARY, 1960, in the envelope provided.

B. V. ENTWISTLE,
Town Clerk.

38 St. Peters Street,
St. Albans.

NEWRY NO. 2 RURAL DISTRICT COUNCIL.

COMPREHENSIVE WATER SCHEME.

PRESSURE FILTRATION PLANT AT DRUMINTEE, CO. ARMAGH.

TENDERS are invited from specialist firms for the SUPPLY, ERECTION and SETTING to WORK of SUITABLE PRESSURE FILTER UNITS and ANCILLARY EQUIPMENT suitable for a maximum filtration rate of 2500 gallons per hour.

Copies of the Plant Specification, Form of Tender and Preliminary Layout Drawing may be obtained from the Council's Consulting Engineers, MESSRS. NICHOLAS O'DWYER AND SON, 6 Trevor Hill, Newry, on payment of a deposit of £5 5s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn and the return of the documents. Sealed Tenders, addressed to the Chairman of the above Council, and particulars required under the Specification must be lodged with the undersigned not later than 5.30 p.m. on the 9th day of MARCH, 1960

The Council does not bind itself to accept the lowest or any Tender, and the acceptance of any Tender will be subject to the approval of the Ministry of Health and Local Government, Northern Ireland.

(Signed) W. B. O'DONOGHUE,
Clerk of Council.

Rural District Council Offices,
Daisy Hill,
Newry.
27th January, 1960.

FYLDE RURAL DISTRICT COUNCIL.

SEWER EXTENSION.

TENDERS are invited for the LAYING of 600yd. of 9in. dia. S.G.W. PIPES and the Construction of appurtenant Manholes and House Drains at NEWTON, near Kirkham, Lancs.

Forms of Tender, Bills of Quantities, and General Conditions of Contract may be obtained from the Office of the Engineer and Surveyor, 29a Station Road, Kirkham, Lancs., on payment of a deposit of Two Guineas. The deposit will be refunded on receipt of a bona-fide Tender. Cheques should be made payable to the Fylde Rural District Council.

Sealed Tender, in plain envelope endorsed "Sewer Extension," must be delivered to the undersigned not later than Noon on TUESDAY, the 23rd February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. WEBB,
Clerk of the Council.

Council Offices,
Wesham, Kirkham.
30th January, 1960.

CONTRACTS

ROYAL BOROUGH OF KINGSTON-UPON-THAMES.

REFUSE TRAILERS.

TENDERS are invited for the SUPPLY of TWO STEEL-BODIED REFUSE TRAILERS.

Forms of Tender, etc., from the Borough Surveyor, Guildhall, Kingston-upon-Thames, on deposit of £1, refundable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in sealed envelopes provided, to undersigned not later than First Post, MONDAY, 29th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. B. ROGERS,
Town Clerk.

Guildhall,
Kingston-upon-Thames.
29th January, 1960.

BOROUGH OF DARTFORD.

GROUP "A" STREET LIGHTING—ST. VINCENTS ROAD.

TENDERS are invited for SUPPLY and ERECTION of 17 COMPLETE LIGHTING UNITS, comprising 25ft. Reinforced Concrete Columns and 400-W MBF/U Lamps and Lanterns. The work includes Removal of existing Lighting Equipment

The Form of Tender and other documents can be obtained on application to the undersigned upon payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender and the return of all documents supplied, other than one copy of the Bill of Quantities.

Tenders, in a plain sealed envelope marked "St. Vincents Road Street Lighting," but bearing no other mark or indication of the tenderer, must be received by me not later than 12 Noon on TUESDAY, 16th February, 1960.

The Corporation does not bind itself to accept any Tender.

THOS. ARMSTRONG,
Town Clerk.

Council Offices,
Dartford.

CARLTON URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959 (PART IX).

PROPOSED MAKING-UP OF BAKEWELL AVENUE AND BELPER AVENUE (PART).

TENDERS are invited for the CONSTRUCTION of SEWERS, CARRIAGEWAYS, FOOTPATHS, and incidental works, at one or both of the FOLLOWING STREETS:

(a) Bakewell Avenue, Carlton.
(b) Belper Avenue (part of), Carlton.

Specifications, Bills of Quantities and Forms of Tender may be obtained from the Engineer and Surveyor, E. C. KIRK, A.M.I.C.E., F.R.I.C.S., M.I.Mun.E., where Drawings and General Conditions of Contract may be inspected during normal office hours

Deposit of £2 in respect of each street, returnable on receipt of bona-fide Tenders not subsequently withdrawn.

Tenders, in a plain sealed envelope endorsed "Private Street Works," to reach the undersigned not later than 10 a.m., WEDNESDAY, 24th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

A. E. F. WALKER,
Clerk of the Council.

Council House,
Burton Road,
Carlton, Nottingham.
28th January, 1960.

NEWTON-LE-WILLOWS URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS for the year ending March 31st, 1961:—

(1) Concrete Kerbs, Flags, etc.
(2) Cement.
(3) Broken Stone and Chippings.
(4) Sand, Shale and Ashes.
(5) Refined Tar and Bitumen.
(6) Tarspraying.
(7) Scavenging Brushes and Refitting.
(8) Iron Castings.
(9) Pipes and Gullies.
(10) Coated Macadam, etc.
(11) Tools.
(12) Hired Transport.

Appropriate forms may be obtained from the Engineer and Surveyor on receipt of a 6d. stamped addressed envelope. Tenders, in plain sealed envelopes, endorsed "Annual Tenders," must be received by the CLERK OF THE COUNCIL, Town Hall, Market Street, Newton-le-Willows, Lancs., on or before 29th FEBRUARY, 1960.

EBBW VALE URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

TENDERS are invited for the SUPPLY and DELIVERY of the UNDERMENTIONED for the period 1st April, 1960, to 31st March, 1961:—

(a) Engine Oils and Greases (Summer and Winter Grades).
(b) Tar and Bituminous Macadam (Various Grades).
(c) General Stores.
(d) Window Cleaning.
(e) Concrete Products.

Tender Forms in respect of the above are obtainable from Mr. J. M. DAVIES, B.Sc., A.M.I.Mun.E., Engineer and Surveyor, Council Offices, Ebbw Vale, Mon.

(f) Petrol, Paraffin, T.V.O., Gas Oil and Derv.
(g) Clean Sharp Sand.
(h) Cement (Ordinary and Rapid Hardening).
(i) Concrete Coarse Aggregate and Winter Grit.

No Tender Forms are available for Items (f), (g), (h) and (i), but any information required may be obtained from the Engineer and Surveyor.

Tenders, enclosed in a plain sealed envelope, appropriately endorsed on the outside, must reach the undersigned not later than noon on 5th MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

HOWARD J. WILLIAMS,
Clerk of the Council.

District Council Offices,
The Walk,
Ebbw Vale, Mon.
29th January, 1960.

STOCKPORT CORPORATION.

TENDERS invited for CARRYING OUT the REALIGNMENT, SUPER-ELEVATION and RE-SURFACING of CROSSLEY ROAD. The Work includes approx. 3,000 sq. yd. of Base Course in Bituminous Macadam, 5,000 sq. yd. of Wearing Course in Machine-laid Bituminous Surfacing, 1,500 sq. yd. Flagging, 700 lin. yd. Kerbing, Drainage and other Incidental Works. Tender documents from BOROUGH SURVEYOR, Town Hall, Stockport, where Drawings and Conditions of Contract may be inspected. Tenders to be returned by Noon, 16th FEBRUARY, 1960.

CONTRACTS

EAST SUFFOLK COUNTY COUNCIL.

TENDERS are invited for the SUPPLY of CANTEEN HEAVY EQUIPMENT to the Education Committee's Store during 1960/61.

Forms of Tender are obtainable from the Chief Education Officer, Education Office, Rope Walk, Ipswich. The completed forms should be sent in plain sealed envelopes endorsed "Tender for Heavy Equipment," and bearing no name or mark identifying the sender, to the CLERK OF THE COUNCIL, County Hall, Ipswich, to reach him not later than First Post on 15th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

COUNTY BOROUGH OF WALSALL.

EDUCATION COMMITTEE.

WHATELEY ROAD SCHOOL PLAYING FIELDS.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of approx. Eight Acres of PLAYING FIELDS, involving Land Drainage, Site Grading, and the Construction of Redgra Pitches, Concrete Cricket Wickets, and Jumping Pits.

Forms of Tender and appropriate documents can be obtained from the undersigned on the deposit of £5 5s., returnable on receipt of a bona-fide Tender.

Tenders must be sent in a sealed envelope addressed to the Town Clerk, Council House, Walsall, bearing the words "Whateley Road School Playing Fields," and are to be received not later than 12 Noon on TUESDAY, 23rd February, 1960.

M. E. HABERSHON,
Borough Engineer and Surveyor.

Council House,
Walsall.
26th January, 1960.

BOROUGH OF ROWLEY REGIS.

FOUL SEWER—DUDLEY ROAD WEST;
AND STORM SEWER—HILL ROAD, TIVIDALE.

TENDERS are invited for the CONSTRUCTION of approx. 110 lin. yd. of 12in. dia. FOUL SEWER and 55 lin. yd. of 21in. dia. STORMWATER SEWER, together with Manholes and ancillary works.

Specification and Bill of Quantities may be obtained from, and Condition of Contract and Plans inspected at, the Offices of the Borough Engineer, S. G. WOOD, M.I.Mun.E., on payment of a deposit of £2 2s., which will afterwards be refunded on receipt of a bona-fide Tender not afterwards withdrawn.

Tenders must be sent to the undersigned, in the envelope provided, endorsed "Sewers—Dudley Road West and Hill Road," so as to arrive not later than 12 Noon on FRIDAY, 26th February, 1960.

JOHN HILTON,
Town Clerk.

Municipal Buildings,
Old Hill, Staffs.
27th January, 1960.

URBAN DISTRICT COUNCIL OF RAYLEIGH.

SOIL SEWER DIVERSION—STATION CRESCENT/DOWN HALL ROAD.

TENDERS are invited for the CONSTRUCTION of approx. 70 lin. yd. of 9in. dia. GLAZED STONEWARE SOIL SEWER and approx. 50 lin. yd. of 9in. dia. STEEL SUSPENDED SOIL SEWER, together with incidental works of Manhole Construction and Alteration.

The Contract Drawings and General Conditions of Contract may be inspected at, and the Form of Tender, Specification and Bills of Quantities obtained from, the Office of the Engineer and Surveyor, Council Offices, Rayleigh, Essex.

Completed Tenders, sealed in the envelopes provided, must be delivered to the undersigned not later than Noon on FRIDAY, 19th February, 1960.

C. E. FITZGERALD,
Clerk of the Council.

Council Offices,
Hockley Road,
Rayleigh, Essex.
28th January, 1960.

SWADLINCOTE URBAN DISTRICT COUNCIL.

The Council invite TENDERS for the TAKING-UP and RESETTING of approx. 1,650 sq. yd. of SLAB PAVING and 460 lin. yd. of KERBING, together with ancillary works, inu SWADLINCOTE ROAD, Woodville.

Contract ducements may be obtained from the Engineer and Surveyor, Bank House, Midland Road, Swadlincote.

Contract documents may be obtained from the Engineer envelopes endorsed "Tender for Footpath Works—Swadlincote Road, Woodville," and should be delivered to the Office of the undersigned not later than the 15th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

C. D. HULL,
Clerk of the Council.

Clerk's Office,
Council Offices,
Midland Road,
Swadlincote.
28th January, 1960.

FYLDE WATER BOARD.

PROPOSED 30IN. DIA. MAIN FROM LAUND WOOD TO RAMSGREAVE, BLACKBURN.

TENDERS are invited from experienced civil engineering contractors for the LAYING of 5.3 Miles 30in. dia. PRESTRESSED CONCRETE and 0.6 Mile 30in. dia. STEEL MAIN, together with ancillary works.

Further particulars from the ENGINEER TO THE BOARD, Sefton Street, Blackpool.

Tender documents will be issued at the end of February, but preliminary details are available now.

Tenders are to be received not later than TUESDAY, 19th April, 1960.

FYLDE WATER BOARD.

TENDERS are invited for the SUPPLY and DELIVERY of SLUICE VALVES and AIR VALVES.

Further particulars from ENGINEER TO THE BOARD, Sefton Street, Blackpool.

TENDERS must be received not later than 9th MARCH, 1960.

WANTED to HIRE or SUB-CONTRACT. 6/12 large TIPPING LORRIES. Surrey district. SAM BOOTH, LTD., Perrymount Chambers, Haywards Heath, Sussex. Telephone: Haywards Heath 1126.

CARR'S QUIPS.—ESTIMATES, large or small—the same fair treatment given to all, by R. J. CARR, Britain's Top Free-lance Estimator, 42 Coombe Road, New Malden, Surrey. Malden 8640.

For Contracts received too late for classification see page 577

APPOINTMENTS VACANT

HOLLAND (LINCS.) COUNTY COUNCIL.

APPOINTMENT OF DIVISIONAL SURVEYOR.

A.P.T. GRADE IV.

APPLICATIONS are invited from qualified Civil or Municipal Engineers for the ABOVE APPOINTMENT at Boston. Preference will be given to those with experience in road construction and maintenance, and in the administration and control of staff with a County Headquarters or Divisional Office. The salary will be in accordance with A.P.T. Grade IV and the starting point will be determined by qualification and experience.

The appointment is subject to the National Scheme of Conditions of Service and to the Local Government Superannuation Acts. An essential user car allowance will be paid. The Council are prepared to contribute to cost of removal.

Further particulars may be obtained from the County Surveyor, County Hall, Loston, Lincs., to whom applications, on the prescribed form, should be submitted not later than 12 FEBRUARY.

G. E. BETTS,
County Surveyor.

County Hall,
Boston, Lincs.
21st January, 1960.

MERIONETH COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of one ASSISTANT ENGINEER, Grade A.P.T. III of the National Joint Council Scales of Salaries.

Applicants should have had good experience in the design and preparation of road and bridge schemes.

Preference will be given to candidates who are suitably qualified and have had previous experience under a County Authority.

Applications, on the Council's Application Forms, must be received by the COUNTY CLERK, County Offices, Penarlag, Dolgellau, by not later than MONDAY, 15th February, 1960.

WEST SUSSEX COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

SENIOR ASSISTANT COUNTY SURVEYOR.

APPLICATIONS are invited for the ABOVE APPOINTMENT on the permanent staff at a salary of £1,385 per annum, rising to £1,620 per annum.

Candidates must be Associate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers; the possession of an Engineering Degree will be an advantage.

The duties of the appointment envisage a wide experience in the preparation and organisation involved in the execution of major road and bridge improvement schemes, together with a high standard of general as well as technical ability.

Application Forms may be obtained from the County Surveyor, County Hall, Chichester, and must be returned to him duly completed not later than 19th FEBRUARY, 1960.

T. C. HAYWARD,
Clerk of the County Council.

COUNTY BOROUGH OF GATESHEAD.

BOROUGH SURVEYOR'S DEPARTMENT.

APPOINTMENT OF CHIEF ENGINEER.

APPLICATIONS invited from suitably qualified persons for the ABOVE WHOLE-TIME APPOINTMENT. Applicants must have a wide experience in all branches of Municipal Engineering, Town Planning, Street Lighting, and the Layout and Development of Housing Estates, and possess a thorough knowledge of the administration of an Engineering Department in a large town. The successful applicant would be in charge of the Engineering Section and, as there is no Deputy, would be directly responsible to the Borough Surveyor.

Salary, Grade "C" of the Joint Negotiating Committee Scale, i.e., £1,385 rising to £1,620.

Post superannuable, medical examination, and one month's notice.

Favourable consideration will be given to the provision of housing accommodation.

Applications, stating age, qualifications, training and experience, with the names of three referees, to be sent to me by 12th FEBRUARY, 1960.

C. D. JACKSON,
Town Clerk.

Town Hall,
Gateshead, 8.

BOROUGH OF WEYMOUTH AND MELCOMBE REGIS.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

RESIDENT ENGINEER—£1,200 P.A.

APPLICATIONS are invited from suitably experienced persons for the APPOINTMENT of a RESIDENT ENGINEER to supervise the construction of a sheet steel piled quay extension, together with ancillary works, and to supervise contracts for the making-up of private streets.

The appointment is for a period of 12 months, but with the possibility, subject to satisfactory service, of an extension to this period, and will be terminable by one month's notice on either side.

The salary will be £1,200 per annum and a car allowance will be paid in accordance with the Charter Scales.

Applications, stating age, qualifications, previous experience, and the names of two referees, should reach the Borough Engineer, 6 Pulteney Buildings, Weymouth, not later than 13th FEBRUARY, 1960.

Canvassing directly or indirectly will disqualify.

E. J. JONES,
Town Clerk.

Municipal Offices,
Weymouth.
January, 1960.

BOROUGH OF BECKENHAM.

ENGINEERING CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE TEMPORARY APPOINTMENT at a salary of £15 per week, and otherwise in accordance with the National Scheme of Conditions of Service.

Applicants should be experienced in the supervision of road and sewer works, preferably in a Municipal Engineer's Department. The Council is embarking on an extensive programme of street works and, subject to satisfactory service, the appointment is expected to last at least three years.

A car allowance on an essential user basis will be payable.

Applications, stating age, experience, present and previous appointments, salary, etc., with names of three referees, must be delivered, in envelopes endorsed "Clerk of Works," to the Borough Engineer, Town Hall, Beckenham, Kent, not later than FRIDAY, 19th February, 1960.

R. WEBSTER STORR,
Town Clerk.

APPOINTMENTS VACANT

COUNTY BOROUGH OF BARNSLEY.

WATER DEPARTMENT.

APPLICATIONS are invited from suitably qualified and experienced persons for the FOLLOWING POSITIONS on the establishment of the water department:—

(1) Maintenance Superintendent, Grade A.P.T. III.
(2) Assistant Maintenance Superintendent, Grade Miscellaneous VI.
(3) Assistant District Superintendent, Grade Miscellaneous VI.

For posts (1) and (2) applicants should have experience of large diameter main laying and the organisation and control of the work of a waterworks depot and yard.

For post (3) knowledge and experience of the running and maintenance of mechanical filters and treatment works is essential.

Further information about the posts and the conditions of service and forms of application may be obtained from the undernamed, by whom applications must be received by MONDAY, the 15th February, 1960.

W. GORDON LEES,
Waterworks Engineer and Manager.

Waterworks Office,
Town Hall,
Barnsley.
January, 1960.

BOROUGH OF CROSBY.

RESIDENT ENGINEER.

APPLICATIONS are invited for APPOINTMENT as RESIDENT ENGINEER for the construction of new Swimming Baths, at a salary within the range of £1,000 to £1,250 per annum, according to experience and qualifications.

The appointment will, subject to satisfactory service, be for the duration of the contract period, estimated at 18 months, and it is expected that the work will commence during April, 1960.

Applicants should have had considerable experience in reinforced concrete and water-retaining structure, together with a sound knowledge of general building work and architectural finishings.

Applications, on forms obtainable from the Borough Engineer and Surveyor at the address below, must be returned to him not later than WEDNESDAY, 24th February, 1960.

Canvassing, directly or indirectly, will disqualify.

HAROLD O. ROBERTS,
Town Clerk.

Town Hall,
Waterloo,
Liverpool, 22.
26th January, 1960.

BOROUGH OF CHORLEY.

APPOINTMENT OF SENIOR ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE-MENTIONED APPOINTMENT in the Borough Engineer's Department, at a salary within A.P.T. Grade III (£880-£1,065). Applicants should hold appropriate qualifications.

The National Scheme of Conditions of Service and the Superannuation Acts apply.

The Council will consider provision of housing accommodation for the successful applicant if required.

Applications, stating age, qualifications, and experience, with copies of two recent testimonials, must be received by the undersigned not later than the 8th FEBRUARY, 1960.

ROBERT POTTER,
Town Clerk.

Town Hall,
Chorley.

BOROUGH OF HESTON AND ISLEWORTH.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF
SENIOR ENGINEERING ASSISTANT.

APPLICATIONS are invited for SENIOR ENGINEERING ASSISTANT at a salary in accordance with Grade A.P.T. IV of the National Scale (£1,065 x £50-£1,220), plus London Weighting.

Candidates must have good civil or municipal engineering experience and be qualified by examination for Associate Membership of the Institution of Municipal Engineers.

The appointment is a permanent one and conditions of service are those of the National Scheme.

The Council is unable to assist the successful candidate with housing accommodation.

Applications, on forms obtainable from the Borough Engineer and Surveyor, 88 Lampton Road, Hounslow, must be returned to him not later than Noon on MONDAY, 15th February, 1960, appropriately endorsed.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow,
Middlesex.

WYCOMBE RURAL DISTRICT COUNCIL.

APPOINTMENT OF
JUNIOR ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE APPOINTMENT at a salary in accordance with Grade A.P.T. I of the National Salary Scale (£610-£765), N.J.C. Conditions of Service will apply.

This post offers scope for considerable experience on main drainage and other capital works of great benefit to young assistants who have completed their professional training.

Applicants must be capable of using surveying and levelling instruments and should have proficiency in draughtsmanship.

Applications, stating age, qualifications and experience and the names of two referees, should be sent to the Engineer and Surveyor at the address below by the 13th February, 1960.

L. C. RYSDALE,
Clerk of the Council.

17 High Street,
High Wycombe.

WYCOMBE RURAL DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF GENERAL ASSISTANT.

APPLICATIONS are invited for the ABOVE APPOINTMENT in accordance with N.J.C. Conditions of Service.

Salary £210 (at age 15) to £595, according to age, educational standard and experience.

This post offers an opportunity for obtaining experience leading to a professional qualification.

Applicants must be able to use surveying and levelling instruments, and be competent draughtsmen.

Applications, stating age, educational standards, experience, etc., together with the names of two referees, should be sent to the Engineer and Surveyor at the address below by the 13th FEBRUARY, 1960.

L. C. RYSDALE,
Clerk of the Council.

17 High Street,
High Wycombe.

APPOINTMENTS VACANT

GLOUCESTERSHIRE COUNTY COUNCIL

COUNTY SURVEYOR'S DEPARTMENT.

ASSISTANT ENGINEERS, QUALIFYING CLASS.

APPLICATIONS are invited for the ABOVE APPOINTMENTS, involving work on improvement schemes on trunk and county roads, planning liaison and in soils laboratory. Through grading (subject to satisfactory service) of A.P.T. I, II and Special. Commencing salary in accordance with qualifications and experience. Car allowance up to 10-h.p. Applicants should hold a current driving licence.

Applications are not required from candidates who have applied for similar appointments in response to recent advertisements.

Application Forms obtainable from, and to be returned to, the County Surveyor, Quay Street, Gloucester, not later than the 25th FEBRUARY, 1960.

GUY H. DAVIS,
Clerk of the County Council.

Shire Hall,
Gloucester.
26th January, 1960.

COUNTY BOROUGH OF MIDDLESBROUGH.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Borough Engineer and Surveyor's Department:

(a) Building Inspector, A.P.T. II (£765-£880). Applicants should possess a Diploma in Building Inspection and be fully conversant with administration of building by-laws.
(b) District Highways Inspector, Misc. Grade VI (£715-£775). Applicants must have had good all-round experience in civil engineering works by Direct Labour, including all types of highways construction and maintenance, and be capable in the control of men and use of mechanical plant.
(c) Engineering Records Assistant, Misc. Grade III/IV (£525-£650). Duties involve making surveys, taking measurements, plotting and maintaining records on Ordnance sheets of information relating to sewerage, highways, public lighting and other services.

N.J.C. Conditions and Superannuation Scheme.

Application for forms to J. A. KENYON, M.I.C.E., M.I.Mun.E., M.T.P.I., Borough Engineer and Surveyor, Municipal Buildings, to be returned, together with copies of two recent testimonials, by WEDNESDAY, 17th February, 1960.

WELWYN GARDEN CITY URBAN DISTRICT COUNCIL.

APPOINTMENT OF SENIOR ASSISTANT ENGINEER.

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENT in the Department of the Engineer and Surveyor:

Senior Assistant Engineer—Special Grade (£785-£1,070).

Commencing salary to be within the Grade up to the maximum, in accordance with qualifications and experience.

The appointment is subject to the following conditions:

(a) The provisions of the Local Government Superannuation Acts. The successful candidate will be required to pass satisfactorily a medical examination.
(b) One month's notice on either side.

Applications, stating age, qualifications, experience, giving the names of two persons to whom reference can be made, should be sent to the Engineer and Surveyor not later than 27th FEBRUARY, 1960.

Canvassing disqualifies.

Housing accommodation will be considered.

L. J. SLOCOMBE,
Clerk of the Council.

Council Offices,
Welwyn Garden City.
26th January, 1960.

WALTON AND WEYBRIDGE URBAN DISTRICT COUNCIL.

APPOINTMENT OF ENGINEERING ASSISTANT—SPECIAL GRADE.

APPLICATIONS are invited for the APPOINTMENT of an ENGINEERING ASSISTANT at a salary in accordance with Grade A.P.T. Special of the National Scale.

Candidates must have had a good general experience of Municipal Engineering and be Chartered Civil or Municipal Engineers.

A fixed car allowance of £125 per annum will be paid, and housing accommodation will be considered in a suitable case.

Applications, on forms to be obtained from the Engineer and Surveyor at these Offices, must reach me not later than SATURDAY, 20th February, 1960.

EDWARD G. HUBBARD,
Clerk of the Council.

Council Offices,
Walton-on-Thames,
Surrey.

CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

A.222, PERRY STREET IMPROVEMENT.

Temporary CLERK OF WORKS REQUIRED, with considerable experience of road construction, including lean-concrete bases, sewers and retaining walls. Probable duration 10 months. Salary £18 per week, inclusive.

Applications, giving age, present appointment, and experience, with copies of two recent testimonials, to CLERK, Council Offices, Sidcup Place, Sidcup, Kent, by Noon, 17th FEBRUARY, 1960.

TYNE IMPROVEMENT COMMISSION.

ASSISTANT ENGINEER AND ENGINEERING ASSISTANT.

APPLICATIONS are invited for APPOINTMENT to POSITIONS of ASSISTANT ENGINEER and ENGINEERING ASSISTANT (CIVIL) in the Chief Engineer's Department of the Tyne Improvement Commission.

Applicants should be Associate Members of the Institution of Civil Engineers or be advanced towards professional qualifications in civil engineering, with experience in the design, execution and mantenance of dock and harbour engineering works.

The commencing salaries, which will be fixed according to the qualifications and experience of the successful candidates, will be within the range of £650 to £1,200 per annum. The appointments are pensionable and subject to the passing of a medical examination.

Applications, stating age, education, training, qualifications and details of experience, and giving the names and addresses of two referees as to training and experience, should reach the undersigned not later than 29th FEBRUARY, 1960.

R. N. EGGLETON,
Secretary.

Bewick Street,
Newcastle upon Tyne, 1.
28th January, 1960.

APPOINTMENTS VACANT

ANGLESEY COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING PERMANENT POSTS—

(a) Structural Assistant Engineer, A.P.T. IV, £1,065-£1,220, commencement in accordance with qualifications and experience.

Candidates to have good experience in practical structural design and to be suitably qualified.

(b) Junior Engineering Assistant, A.P.T. II, £765-£880.

Candidates must have completed engineering training and obtained intermediate qualifications of a recognised body or be university graduates with appropriate post-graduate experience.

Applications, stating age, qualifications and experience, giving names and addresses of two referees, should be received by the undersigned not later than 13th FEBRUARY, 1960.

IDRIS DAVIES,
Acting Clerk of the County Council.

BOROUGH OF OLDBURY.

APPOINTMENT OF CHIEF ENGINEERING ASSISTANT.

APPLICATIONS are invited for this APPOINTMENT on Grade A.P.T. IV (£1,065-£1,220 per annum).

Applicants must be Corporate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers and must have had good experience in general municipal engineering work.

Forms of application and further particulars may be obtained from the undersigned, to whom applications should be delivered by the 15th of FEBRUARY, 1960.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury,
Birmingham.
25th January, 1960.

CIVIL ENGINEERING ESTIMATOR, age about 50, with wide experience of tendering for all types of civil engineering contracts, REQUIRED by THE DEMOLITION AND CONSTRUCTION CO., LTD., 3 St. James's Square, London, S.W.1. Applications, in writing, should be made to the Chief Engineer at the above address, giving age, qualifications, details of experience, and salary required.

TARMAC CIVIL ENGINEERING, LTD., have vacancies for experienced ESTIMATORS. These are permanent positions with good prospects for advancement.—Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications, salary required, and should be addressed to Managing Director, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

CONTRACTS MANAGER REQUIRED by well-known firm of medium-sized contractors, head office in Central London, to manage projects in the Greater London area. Must possess sound qualifications, L.I.O.B. an advantage. 35 to 45 age group preferred. Write, stating age, experience and salary required, to Box V 1031, "The Contract Journal."

F. J. C. LILLEY (CONTRACTORS), LTD., have VACANCIES for SUB-AGENT/ENGINEERS and SECTION ENGINEERS on tunnel contracts in London and the Midlands. Applicants must have a sound knowledge of soft-ground tunnel work and be capable of supervising construction and setting-out. — Civil engineers who have undergone a thorough training in the industry should apply to the Assistant General Manager, Great Cambridge Road, By Church Street, London, N.9.

EAGRE

AGENTS and SITE ENGINEERS REQUIRED for various contracts throughout the country. Experience in earthworks, roads, drainage and heavy foundations essential. Knowledge of tracklaying would be advantageous. — Apply, in writing, giving details of age, experience, together with present salary, to:

The Contracts Manager,
EAGRE CONSTRUCTION CO., LTD.,
East Common Lane, Scunthorpe, Lincs.

DESIGN ENGINEER WANTED for Victoria head office of civil engineering contractor. Should be a qualified civil engineer with site and design office experience, and interested in mechanical engineering. Reply to Box V.1087, "The Contract Journal," quoting Ref. ABC/8.

SUB-AGENTS and ENGINEERS REQUIRED for general civil engineering work in various parts of the country.—Write, stating age, and giving full details of experience and salary required, to Box V.1092, "The Contract Journal."

QUANTITY SURVEYORS REQUIRED by major firm of civil engineering and building contractors. Applicants should be capable of dealing with all aspects of final account to completion. Permanent appointments with good salary and conditions and entry into superannuation scheme arranged after 12 months' service.—Write, giving full details of training and experience, which will be treated in the strictest confidence, to THE MITCHELL CONSTRUCTION CO., LTD., Wharf Works, Peterborough, Northants.

CUBITTS

COST SURVEYORS REQUIRED immediately. Must be experienced in measuring completed site works for the purpose of unit costing and assessment of targets. Permanent and pensionable positions with good prospects. Apply, in confidence, stating age, experience in detail, and salary required, to:

Personnel Manager,
HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN), LTD.,
1 Queen Anne's Gate, London, S.W.1.

WALTER SMITH (CONTRACTORS), LTD., Sevenoaks, Kent, REQUIRE ASSISTANT ESTIMATOR for small- and medium-sized road, sewer and civil engineering work. Age 25-35. Permanent pensionable appointment after probationary period.—Write, giving full details of experience, age, salary required, Box V.1098, "The Contract Journal."

QUALIFIED CIVIL ENGINEER, with wide background of contracting experience, for small progressive expanding company. Must have proved record of works completed to programme at right cost. To be responsible for estimating, pricing, programming and negotiation of medium-sized contracts. Salary and bonus on results. Car provided.—Write, giving full details, to Box V.1096, "The Contract Journal."

APPOINTMENTS VACANT

AN ASSISTANT ENGINEER is REQUIRED by C. J. PEARCE AND CO., LTD., Civil Engineers and Public Works Contractors, of Southall, Dawley, Shropshire, England. Good salary and prospects in a young and growing company.

A FIRST-CLASS PRACTICAL ENGINEER is REQUIRED by C. J. PEARCE AND CO., LTD., Civil Engineers and Public Works Contractors, of Southall, Dawley, Shropshire, England. Good salary and prospects in a young and growing company.

AGENT/SUPERVISOR REQUIRED. Must be experienced in the laying both by machine and hand of hot-rolled asphalt and coated macadam. Good salary and conditions. Car provided. Work, in the main, will be in the Berkshire, Oxfordshire area, but must be prepared to travel.—Applications, in confidence, to The Manager, AMEY'S ASPHALT CO., LTD., Sutton Courtenay, Abingdon, Berks.

SITE CASHIER: Applications invited from experienced men who have been Site Cashiers for at least the past five years and bonded and worked for a reputable national contractor, for large jobs in the Midlands area. Top salary and expenses offered to the right man.—WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

MAJOR BRITISH CIVIL ENGINEERING CONTRACTORS

Have vacancies for the following staff for their subsidiaries and associates in Africa:—

AGENT (SENIOR)
AGENT (JUNIOR)
SUB-AGENT
ACCOUNTANT (not necessarily fully qualified)
ASSISTANT ENGINEERS (qualified)
SECTION FOREMEN (carpenter-trained)
FOREMAN FITTER
CASHIER
CHIEF STOREKEEPER

Each appointment covers an initial 18-month tour. High salaries are offered, together with free furnished living accommodation, end-of-tour paid leave and bonus. Families' passages will be paid for the first four appointments in the above list. Applications, which will be treated in confidence, should give fullest details of career to date. Please reply to:

BOX V.1046, "THE CONTRACT JOURNAL."

CIVIL ENGINEERING ASSISTANTS REQUIRED for site work on contracts. The work is varied and interesting, with opportunities for promotion and study of new methods. Applicants should be between the ages of 26 and 32, and hold a degree in civil engineering, or equivalent. They should have had a minimum of three years with a contractor on site work, which must have included setting-out and progress measurement. Experience in design of formwork and other temporary works, control of concrete quality would be an advantage.—Apply in writing, giving brief details of qualifications and experience, also stating age, and salary required, to the Chief Engineer, THE DEMOLITION AND CONSTRUCTION CO., LTD., 3 St. James's Square, S.W.1.

JUNIOR CIVIL ENGINEERS REQUIRED to work on sites, with excellent opportunities for training. Applicants should be graduates, or equivalent, and should be between the ages of 20 and 26.—Apply in writing, giving brief details of qualifications and experience (including vacation course work), also stating age, to the Chief Engineer, THE DEMOLITION AND CONSTRUCTION CO., LTD., 3 St. James's Square, S.W.1.

SURVEYOR: Applications invited from men, age range 26-45, who have had recent past experience in successful handling of final accounts for large building contracts work, including monthly certificates and variations, etc. Working from Wolverhampton as a base and visiting several jobs.—Applications should give full details of recent record of employment with a similar company, and responsibilities, addressed to Personnel Manager, WILSON LOVATT AND SONS, Ltd., Clarence Street, Wolverhampton.

AGENTS REQUIRED by SIR LINDSAY PARKINSON AND CO., LTD. Must be fully experienced all types building contracts, and mobile. These positions are pensionable and offer good chances of advancement.—Only applicants seeking such opportunities should apply to 6 Lambeth Road, St. George's Circus, London, S.E.1. Ref. H.J.L.

ENGINEERS, competent in setting-out for roads, sewers and buildings, to operate on housing development.—Apply SIR LINDSAY PARKINSON AND CO., LTD., Building Department, 6 Lambeth Road, St. George's Circus, S.E.1.

THE GUEST, KEEN AND NETTLEFOLDS

group of companies REQUIRE a SUPERVISOR—bored pile work. A Supervisor, to be based on the Midlands, is required immediately for a new department of a constituent company. The successful candidate will assist in the purchase of plant and the engaging of foremen and site labour, and will subsequently undertake responsibility for the general supervision of site work. Extensive practical experience of bored pile work is essential, particularly in the control of a large number of piling rigs. Preferred age 35-45. This is a staff appointment which is permanent and pensionable.—Applicants should write, giving details of age, experience and salary required, to:

The Group Personnel Officer,
GUEST, KEEN AND NETTLEFOLDS, LTD.,
66 Cannon Street, London, E.C.4.

ENGINEER/AGENT REQUIRED for civil engineering contracts, mainly in the London area. Applicants should be under 40 years of age and must have had wide experience, particularly on roads and sewers. The successful applicant will be responsible for the control and supervision of all contracts on which he is engaged, and must possess drive and initiative, together with a cost-conscious attitude. The position is permanent and progressive, and a contributory pension scheme is in operation.—Please reply, giving details of age, qualifications, past experience and salary required, to RUDDOCK AND MEIGHAN, LTD., Burford House, Harrow View, Wealdstone, Middlesex.

GENERAL FOREMAN (Civil Engineering): Applications invited from Senior General Foremen, top of their grade in reinforced concrete work of all classes, including factories and industrial work, for the Midlands area. Experienced in using initiative in site administration with minimum of supervision and practical application of all modern techniques.—Send full details of training and experience to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

APPOINTMENTS VACANT

GENERAL FOREMAN (Building): Applications invited from Senior General Foremen who are at the top of their grade and have handled large building contracts in recent years, using initiative in site administration and practical application of all modern techniques, for work in the Midlands area. Carpenter and Joiner background preferred. A good salary and expenses and other staff terms will be available to the successful applicant.—WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

NORTH HERTS. building and civil engineering company REQUIRE ESTIMATOR/SURVEYOR experienced in handling from inquiry to final account. The appointment is progressive, leading to a more responsible managerial position.—Apply in writing to Box V.9972, "The Contract Journal."

MARTIN COWLEY, LTD.: SENIOR ESTIMATORS with experience of tendering for heavy civil engineering projects, REQUIRED. Positions offer opportunity for promotion and an interesting career to suitable applicants.—Apply, stating full details, to 112 Jermyn Street, S.W.1.

YOUNG CIVIL ENGINEERS WANTED by London contractor for site work in the first instance. These positions are progressive and can produce a variety of experience, including the possibility of overseas work. Write initially, giving details of age, experience, salary required, etc., to Box V.9966, "The Contract Journal."

SITE ENGINEERS REQUIRED for civil engineering contracts in the Midlands. Previous experience with contractors essential. Attractive salary and bonus scheme and opportunity for advancement. TARSLAG, LTD., Wolverhampton.

MICHIGAN (GREAT BRITAIN), LTD.

REQUIRE EXPORT SALES EXECUTIVE, aged between 25 and 35. Experience in earthmoving and materials handling equipment preferred. Duties will include calling on London export houses and assisting with routine sales correspondence. Possibility of limited overseas travel later.—Please write, giving full particulars, to:

The Personnel Officer (Ref. MGB/Export Sales),
P.O. BOX NO. 3,
Yorktown Works, Camberley, Surrey.

FOUNDATION contractors REQUIRE SETTING OUT ENGINEER. Academic qualifications not essential, but must have practical experience and be reliable. Successful candidate will be required to travel frequently, but will be based at own home, preferably in the North of England or South Scotland. Write to Box V.1105, "The Contract Journal."

YOUNG SETTING-OUT ENGINEER REQUIRED for sites in Home Counties. Applicants must be proficient instrument men and capable of working on their own initiative and have clean driving licence. Pension scheme.—Apply, stating age and full details of experience and salary required, to Projects Manager, HIGHWAYS CONSTRUCTION, LTD., Asphalte House, Palace Street, S.W.1.

METAL UNION (PLANT), LTD., of 75 Victoria Street, London, S.W.1, REQUIRE competent and experienced MALE ASSISTANT to handle merchanting of earthmoving machines, etc. High-level negotiator and prepared to travel.—Replies, giving personal details and emoluments expected, to be addressed to the Secretary (marked "Confidential").

BOWMAKER (PLANT), LTD., the Caterpillar Dealers, REQUIRE a SALES REPRESENTATIVE for North Staffordshire and Shropshire. The applicant should be between 25 and 35 years of age, he should have had experience in the earthmoving industry, and have the ability to assimilate knowledge of the full range of Caterpillar earthmoving equipment and its application, for which training will be given. Salary and commission will be paid and a car provided.—Applications will be treated in confidence, and should be sent to the Personnel Manager at Noose Lane, Willenhall.

JUNIOR SITE ENGINEERS REQUIRED by a firm of civil engineering contractors operating in the North of England; duties including setting, measurement, records, etc. Good salary and prospects offered to energetic young men.—Write Box V.1076, "The Contract Journal."

THE CEMENTATION GROUP OF COMPANIES

Have a further vacancy for a STORES CONTROLLER/BUYER on the permanent senior staff of the recently formed group supply department. A short induction period in the U.K. will be followed by an overseas posting on a large building or civil engineering contract. Candidates, 33 to 38 years of age, must have sound experience of stores administration and purchasing with a large organisation project, preferably in the building or civil engineering industry. Overseas experience an advantage. The position is pensionable and carries a U.K. salary in the range £1,050 to £1,300 p.a., with overseas salary appropriate to the particular territory, but not less than £1,800.—Please apply, in writing, to:

The Personnel Officer,
THE CEMENTATION CO., LTD.,
20 Albert Embankment, London, S.E.11.

QUANTITY SURVEYOR REQUIRED for building construction involving all trades. Huddersfield office.—Write Box V.1081, "The Contract Journal."

CONTRACTS MANAGER / SUPERVISOR REQUIRED by well-known old-established company of building and civil engineering contractors in the South-West. Applicants, possessing previous experience, should be capable of organising and controlling a number of contracts concurrently and should be well acquainted with modern building methods and plant, preplanning and cost control. Preferred age 30 to 45. The salary will be commensurate with experience. The position is permanent and pensionable. Car provided. Reply in confidence, giving age and details of previous experience, to Box V.1080, "The Contract Journal."

ROBERT M. DOUGLAS (CONTRACTORS), LTD., REQUIRE SECTION ENGINEERS, SETTING-OUT ENGINEERS and SOILS ENGINEERS for work, including motorways and general civil engineering, in any part of the country.—Apply in writing, stating age, experience, qualifications, and salary required, to 395 George Road, Birmingham, 23.

LARGE London firm of foundation contractors REQUIRE DEPUTY to QUANTITY SURVEYOR. Must be capable of measuring reinforced concrete work from drawings on site for interim and final accounts; also control costings of contracts. Good salary and prospects.—Write, stating age and experience, to Box V.1104, "The Contract Journal."

APPOINTMENTS VACANT

PLANT FITTERS and MATES REQUIRED for overhauls of heavy civil engineering plant at contractors' plant depot in Watford. Experience on Ruston and N.C.K. excavators preferred. Permanent job. Good conditions.—Apply: MARPLES, RIDGWAY AND PARTNERS, LTD., Metropolitan Station Approach Road, Watford, Herts.

ESTIMATORS REQUIRED for building and civil engineering work. Applicants should be fully experienced.—Apply, in writing, stating age, past experience and salary required, to: CURRALL, LEWIS AND MARTIN, LTD., 11 Booth Street, Birmingham, 21.

PUBLIC WORKS contracting company REQUIRES an ENGINEER-AGENT well experienced in reinforced and prestressed concrete construction. Good prospects with an expanding company.—Write in first instance, full particulars, including salary required, in confidence, to WILLIAM T. NICHOLLS, LTD., St. Pauls Road, Gloucester.

FOREMAN/AGENT REQUIRED. Must have wide experience in sewers and deep excavation works, and be capable of controlling a contract up to final measurement. Permanent, progressive position. Pension scheme.—Write, giving full details, to Box V.1025, "The Contract Journal."

MICHIGAN (GREAT BRITAIN), LTD.

REQUIRE a first-class experienced SALES REPRESENTATIVE who has handled tractor shovels and rubber-tyred earthmoving equipment, to complete their sales team in the Central Midlands area. Good salary. Pension scheme.—Write, with full details, to:

The Personnel Officer (Ref. Mich-Sales),
P.O. BOX NO. 3,
Yorktown Works, Camberley, Surrey.

YOUNG SETTING-OUT ENGINEER REQUIRED. Permanent post with excellent prospects. Write in first instance, full particulars, in confidence, W. T. NICHOLLS, LTD., St. Paul's Road, Gloucester.

TARMACADAM and asphalt company REQUIRE an ASSISTANT for their surfacing department. Must have knowledge of estimating and be able to carry out final measurements. Applicants should give details of previous experience and salary required. Apply ROADS RECONSTRUCTION (1934), LTD., Surfacing Department, Chapel Lane, West Drayton, Middx.

SURFACE MAINTENANCE SERVICES, LTD., REQUIRE a QUANTITY SURVEYOR to work in the Bournemouth office. Applications invited from men aged 25-30 with experience on civil engineering works. The job will entail the responsibility for site measurement and the preparation of interim and final accounts for medium-size road and sewer contracts. Applications in writing, giving full details of past experience, salary required and two recent references, to Personnel Manager, 124 Old Christchurch Road, Bournemouth.

MANAGER REQUIRED by painting contractors for branch office at Exeter. Must be efficient administrator and have detailed knowledge of surveying for all classes of contract work. Accommodation available. Ultimate appointment as director for suitable applicant.—Write, stating previous experience, salary required, etc., and for appointment, to Box V.1023, "The Contract Journal."

SUB-AGENT/ENGINEER REQUIRED to organise and supervise production of heavy precast concrete bridge units at depot in North London. Specialist experience in this sphere of operations required, together with general contracting experience—Write to Box V.1094, "The Contract Journal," quoting Ref. DEF/2.

FISONS FERTILIZERS, LTD.

REQUIRE the services of a CIVIL ENGINEER for their head office engineering section. The engineering offices are located at Felixstowe, but applicants should be prepared to visit works throughout the United Kingdom in the course of duties. Applicants should hold an engineering degree and/or Corporate Membership of the Institution of Civil Engineers, coupled with at least five years' industrial experience, including a minimum of two years on site works. The applicant should be capable of general design work in reinforced concrete and/or structural steelwork and of supervision of preparation of contract documents, specifications in connection with civil engineering and building projects associated with fertiliser and chemical plants. Preferred age group 30-40 years. The company operates a pension scheme which, for married staff, includes provision for widows and dependent children. — Applications, with full particulars, to:

Personnel Manager (JU48),
FISONS FERTILIZERS, LTD.,
Harvest House, Felixstowe, Suffolk.

SENIOR SURVEYOR or SENIOR ESTIMATOR REQUIRED, Manchester building and civil engineering contractor. Capable of controlling department or able to take full responsibility large contracts from estimate to final account. Salary £1,000/£1,400 plus bonus, etc., etc. Excellent prospects with financially sound company.—State age, full particulars, in confidence, to Box V.1120, "The Contract Journal."

SENIOR QUANTITY SURVEYOR REQUIRED for head office appointment. Applicants must have extensive experience in civil engineering construction work. Salary commensurate with experience. Bonus and superannuation scheme in operation.—Applications should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

SITE SECTION ENGINEER REQUIRED for large dry dock construction on north-east coast. Age 25-30. Preferably experience of marine works and civil engineering qualifications. Excellent prospects both at home and abroad.—Write to Box V.1095, "The Contract Journal," quoting reference KLM/7.

ESTIMATOR urgently REQUIRED, capable of working on own initiative, preferably with experience of road, railway, water sewer and sewage works for company in North Staffordshire. Good prospects to capable man.—Write Box V.1097, "The Contract Journal."

OFFICE MANAGERS and SITE STAFF: Southern Area and Glasgow Area. Vacancies occur on three large civil engineering contracts commencing shortly. Applicants must be keen, experienced and fully capable. Good commencing salary; excellent prospects; non-contributory pension scheme. Own staff notified.—Details of age, experience, and salary required, to Box V.1055, "The Contract Journal."

APPOINTMENTS VACANT

SITE ENGINEERS REQUIRED for long contract in the Colchester area. — Apply General Manager, FARRANS, LTD., 39 Upper Brook Street, London, W.1. Telephone: GROsvenor 4986.

SITE ENGINEERS REQUIRED for road-works and main drainage contracts in Home Counties. Good prospects for keen young men who are competent and experienced in setting-out, etc.—Apply in writing, giving details of training and experience, age, and salary required, to Box V.1070, "The Contract Journal."

YOUNG Graduate CIVIL ENGINEER REQUIRED by old-established firm dredging contractors. Previous experience not essential. Employment on permanent basis, with full staff benefits, for right man.—Write Box V.1054, "The Contract Journal."

SENIOR ESTIMATOR REQUIRED for contractors' branch office. Considerable previous experience in civil engineering essential. Permanent progressive post to satisfactory applicant, and participation in superannuation scheme.—Submit complete details of previous employers with application to Box V.1088, "The Contract Journal."

TWO CONTRACTS MANAGERS REQUIRED by North-West building and civil engineering company, one to specialise on large buildings and the other on medium-sized civil engineering contracts. Salary £1,250/£1,500 plus bonus. Car provided. Assistance with housing if required. Work usually within 30 miles radius of head office.—Age and full particulars in confidence to Box V.1117, "The Contract Journal."

HUSSEY, EGAN AND PICKMERE, LTD., have vacancies for SUB-AGENTS and SETTING-OUT ENGINEERS on civil engineering contracts in England and Wales. Previous experience essential.—Apply to Head Office, 24 Calthorpe Road, Edgbaston, Birmingham, 15, giving details of previous experience and stating age and salary required.

SENIOR AGENT

REQUIRED to take charge of a number of reinforced concrete and steel bridges. Applicants must have proven ability to deal with a number of sites concurrently, and must have had experience of large bridge construction. The appointment carries the possibility of permanency. Please send full details, in confidence, to:

BOX V.1126, "THE CONTRACT JOURNAL."

ENGINEER/AGENT REQUIRED to run medium-sized contracts in Kent area. Ability to organise rapid production with quality control. Pension scheme. Excellent prospects for senior position.—Apply HUGH BROWN (ENGINEERS), LTD., Chart Road, Ashford, Kent.

ASSISTANT to contracts manager REQUIRED by progressive civil engineering contractors working in the Bedfordshire and Hertfordshire area. Excellent opportunity for right man, preferably between 25-35 years.—Please write, stating age, experience, to Box V.1115, "The Contract Journal."

YOUNG MAN REQUIRED, civil engineering training, to commence as Site Engineer, with a view to promotion to Assistant Contracts Manager. Luton area.—State age and experience to Box V.1116, "The Contract Journal."

ROBERT M. DOUGLAS (CONTRACTORS), LTD. Quantity Surveying Department.—QUANTITY SURVEYORS REQUIRED for work in Great Britain, with at least three years' experience of final accounts for civil engineering and building works of £100,000 and above. Excellent prospects for men of initiative and ability. Remuneration by arrangement. Pension scheme. Write, giving details of age, education, experience, and salary, to 395 George Road, Erdington, Birmingham, 23.

ASSISTANT SURVEYORS REQUIRED for large contracts in London. Good salary and expenses.—Apply to Dept. WK, 26 Victoria Street, London, S.W.1.

FORMWORK DESIGNER

REQUIRED by large building civil engineering contractor. Operate from office in Midlands. Must be fully qualified, with comprehensive experience in shuttering and reinforced concrete. Age 30 to 40 years. Excellent salary, congenial conditions. Pension and bonus schemes. Write full details of age, experience, qualifications, to:

Personnel Manager,
BOX DL8919, c/o WHITES,
72 Fleet Street, London, E.C.4.

ESTABLISHED company of building and civil engineering contractors REQUIRE the following: PLANNING ENGINEER: To plan housing, industrial construction, schools, office blocks, and some engineering works. Applicants should have a technical qualification in the building industry and preferably a period in a responsible controlling position on contract sites, and be conversant with modern construction methods and management technique. SENIOR BUILDING ESTIMATOR: Applicants should be capable of competitive tendering for all types of contracts up to £1m. in value and should be able to present completed tenders with calculations, for final discussion with the head of the department. These appointments are required due to the expansion of the building division. Permanent positions are intended and a superannuation scheme is in operation. Applicants should write in the first instance for an application form, which will be treated in strict confidence.—Apply to THE NORWEST CONSTRUCTION CO., LTD., Ruthven Road, Litherland, Liverpool, 21.

CONTRACTORS' SURVEYOR REQUIRED for an expanding firm of reinforced concrete specialists. Applicants, preferably 25-35, must have experience in interim and final valuations, with some knowledge of taking-off and price build-up for all trades. This is an excellent opening for a man with drive and initiative to secure a progressive position in a well-established firm with good connections.—Give details of age, experience, and present salary to Chief Surveyor, THE LONDON FERRO-CONCRETE CO., LTD. Maxted Road, Hemel Hempstead, Herts.

WALTER SMITH (CONTRACTORS), LTD., Civil Engineering and Building Contractors, Sevenoaks, Kent, REQUIRE ADDITIONAL STAFF to manage work on small and medium-sized contracts in Kent, Surrey and Sussex. Persons applying for these appointments should be 25-30 years of age and must be able to estimate for, and organise the construction of, all types of road, drive and building work from the inquiry to the final completion. The appointments are permanent and pensionable after a probationary period.—Write in strict confidence, giving age, full details of experience, and indicate salary required.

APPOINTMENTS VACANT

CIVIL ENGINEER: Applications invited from young Engineers with about five years' experience on building and civil engineering sites, to work in the Midlands area in the first instance, on large contracts. The positions are progressive and a good salary and terms will be offered to selected applicants. Full details of training and experience should be sent to the Personnel Manager, WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

EXPERIENCED ESTIMATOR REQUIRED by civil engineering contractors, to operate from head office, Reading area. Permanent position; prospects, with pension rights.—Write in confidence, giving age, details of experience, previous employers, and salary required, to Box V.1071, "The Contract Journal."

GENERAL FOREMAN for leading firm of building and civil engineering contractors in British Guiana, later possibly to be transferred to West Indies. Salary approx. £1,300 p.a.; transport provided. Free passages; good leave, etc.—Write with full details to O.T.S., 5 Welldon Crescent, Harrow, quoting 72/13.

SUB-AGENTS REQUIRED for heavy civil engineering contracts in United Kingdom, with possibility of overseas work at a later date. Applicants must have at least two years' experience in similar capacity and should preferably be qualified Engineers. Permanent positions, pension scheme, and good opportunities for advancement.—Applications, giving full details of age, qualifications and experience, to Establishment Officer, GEORGE WIMPEY AND CO., LTD., 27 Hammersmith Grove, London, W.6. Ref. 867C.

LABOUR, SAFETY AND WELFARE: Young Man (20-25) REQUIRED initially for interviewing and clerical work in labour office of building and civil engineering contractors. Previous experience not essential but some knowledge of the industry and/or an interest in labour recruitment and conditions of employment desirable. Good prospects and permanent, pensionable position.—Apply in writing, giving age and details of past experience, to Personnel Manager, HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN), LTD., 1 Queen Anne's Gate, London, S.W.1.

JUNIOR SURVEYOR

For the head office of C. J. SIMS, LTD., building and civil engineering contractors. Age 20-25. Applicants must be experienced in all phases of building surveying, from site measuring to preparation of final accounts. Apply, in confidence, giving age, complete details of training, experience and salary required, to:

C. J. SIMS, LTD.,
2 Victoria Street, S.W.1.

CIVIL ENGINEERS, India: Applications are invited for vacancies on a heavy civil engineering project in India, as follows: SENIOR ENGINEER, with considerable contracting experience as Agent, or as Senior Engineer on large projects, to take charge of construction in a major area with turnover of approx. £100,000 per month. Salary in the region of £2,750 p.a., tax free. SECTION ENGINEERS, 28-35 years of age, with contracting experience on medium to large projects as Engineer or Sub-Agent. Salaries in the region of £2,500 p.a., tax free. Tours are for 18 months on a single basis, though, for the senior appointment only, family accommodation may be available at a later date. A site bonus scheme is in operation.—Please write, giving brief details of experience and qualifications, to the Personnel Officer, THE CEMENTATION CO., LTD., 20 Albert Embankment, London, S.E.11.

FOREMAN PLANT FITTER REQUIRED for large heavy civil engineering project in India, for the servicing and maintenance of plant, including earthmoving equipment, compressors, concrete plant, and transport. Salary will be in the region of £2,000 p.a., tax free. A site bonus scheme is in operation. The tour will be of 12 months' duration on a single basis. Excellent accommodation. — Write, stating qualifications and experience, to the Personnel Officer, THE CEMENTATION CO., LTD., 20 Albert Embankment, London, S.E.11.

PLANNING ENGINEER, aged 25-35, REQUIRED to control planning section of Midlands building and civil engineering contractor, preferably with both site and surveying experience, but training facilities available. Excellent opportunity for advancement. Car. Pension scheme.—Particulars of training and experience to Ref. GWH, D. B. EVANS (BILSTON), LTD., Oxford Street, Bilston.

CONTRACT SUPERVISORS REQUIRED by painting contractors in Midlands and London areas. Practical experience of all types of painting work essential.—Write Box V.1114, "The Contract Journal."

SENIOR SURVEYOR

For the head office of C. J. SIMS, LTD., building and civil engineering contractors. Age 28-35. Applicants must be experienced in all phases of building surveying, from site measuring to preparation of final accounts, including the building-up of rates.—Apply, in confidence, giving age, complete details of training, experience and salary required, to:

C. J. SIMS, LTD.,
2 Victoria Street, S.W.1.

JUNIOR SITE ENGINEER REQUIRED in Birmingham area for setting-out and measurements for road and sewer contract. Interviews will take place in Birmingham.—Write, with full particulars of experience, and salary required, to Box V.1129, "The Contract Journal."

QUANTITY SURVEYOR/ESTIMATOR to deal with inquiries, interim certificates and final accounts, REQUIRED for building and civil engineering contractors. Pension and life assurance scheme. Applicant required to be car driver and aged under 40. Apply by letter, stating experience and salary required, to T. HOLDOWAY AND SONS, LTD., Westbury, Wilts.

CIVIL ENGINEERING ASSISTANTS are REQUIRED by consulting engineers in Birmingham. Young men, preferably with some experience in the design of works of sewerage and sewage disposal, are sought for positions in the salary range up to £900 p.a. Apply in writing, stating age, details of education, training, experience, and salary required, to WILLCOX, RAIKES AND MARSHALL, 33 Great Charles Street, Birmingham, 3.

EXPERIENCED ASSISTANTS REQUIRED for surveyors' department of expanding building and civil engineering contractors. Pension and life assurance scheme.—Apply by letter, stating age experience and salary, to T. HOLDOWAY AND SONS, LTD., Westbury, Wilts.

APPOINTMENTS VACANT

A FIRM of public works contractors specialising in Post Office ductwork REQUIRE a first-class TRAINEE-AGENT possessing drive, initiative and ambition. Applicant must be young and willing to lodge in any part of the country as required. State age, references, etc., in first instance to Box V.1127, "The Contract Journal."

ASSISTANT ENGINEER for road and sewer works in Midlands. Experience in land surveying and setting-out essential. This is a permanent position, with good prospects. Applicants should be capable of working on own initiative.—Full particulars to A. J. Simons, BRYANT ESTATES, LTD., Whitmore Road, Small Heath, Birmingham, 10.

GENERAL FOREMAN REQUIRED for civil engineering contract in Essex.—Please write, stating experience, with copy references, and salary required, to Box V.1130, "The Contract Journal."

SITE ENGINEER REQUIRED for civil engineering contract in Essex. Experience in setting-out, measuring and final accounts. Salary according to experience and qualifications.—Write Box V.1128, "The Contract Journal."

BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION

Applications are invited for APPOINTMENTS to the development staff and to the bridge department. Candidates should be young men with some experience in the design and detailing of steel-frame buildings, with knowledge of B.S.449, or with experience in the design of steel bridges with knowledge of B.S.153. Five-day week and luncheon vouchers. Admission to non-contributory pension scheme after qualifying period.—Apply, in confidence, giving fullest details with salary required, to:

The Technical Adviser,
BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION,
Artillery House, Artillery Row, London, S.W.1.

YOUNG CIVIL ENGINEERS REQUIRED for sewage disposal works, roads and industrial contracts. Positions are progressive and experience varied. Applicants must have experience in setting out, measurements, good civil engineering background, and hold a driving licence.—Applications, in confidence, stating full details, including age, experience and qualifications, to: INGRAM CONSTRUCTION, LTD., 75 Hobs Moat Road, Solihull, Warwickshire.

QUANTITY SURVEYOR / CERTIFICATE ENGINEER REQUIRED by RICHARD COSTAIN, LTD., to work on a large contract in Essex. Candidates, aged 28-35, must have at least five years' experience of site measurement and the preparation of interim valuations and final accounts. Experience on civil engineering contracts desirable. Good salary, with subsistence allowance if required to live away from home.—Please write to Personnel Officer, 111 Westminster Bridge Road, London, S.E.1.

TARMAC (SOUTHERN), LTD., REQUIRE men in the 25-30 age group for appointment as TECHNICAL SALES REPRESENTATIVES. Applicants shoud be of good education, with a technical background and some practical experience, not necessarily in the black top surfacing industry. Commencing salary will be attractive and commensurate with qualifications and experience, and there are excellent prospects for the right men.—Applications, giving details of age, present occupation, qualifications and experience, should be addressed to the Managing Director, Tarmac (Southern), Ltd., 25/28 Buckingham Gate, London, S.W.1, and marked "Personal."

WORKING FOREMAN REQUIRED for medium-size civil engineering contracts in Southern Home Counties. Applicants must have initiative and drive, with good all-round experience. Salary £700-£800 p.a., plus subsistence.—Write, with full details, to Box V.1164, "The Contract Journal."

MOBILE CRANE SALES ENGINEERS

REQUIRED by large organisation who are now going to increase representation in all areas of the United Kingdom. High basic salary plus commission, expenses and good standard of company car. The standard of these appointments calls for first-class men. All of our present sales staff are advised of this advertisement. It must be appreciated by all applicants that only applications with full details of career, education and personal particulars will be considered for these important positions.

WRITE BOX V.1121, "THE CONTRACT JOURNAL."

JUNIOR ENGINEER, with site experience and capable draughtsman, REQUIRED by company specialising in formwork and temporary structures. Salary by arrangement.—Write brief details to: GUYREX EQUIPMENT, LTD., 25 Craven Street, London, W.C.2.

GENERAL FOREMAN REQUIRED to supervise construction of concrete roads and sewers on large housing site, S.E. London.—Write, giving details of qualifications and experience, to: M. HOWARD (MITCHAM), LTD., Wandle House, London Road, Mitcham, Surrey.

ASSISTANT ENGINEERS and DESIGNER-DRAUGHTSMEN REQUIRED for varied and interesting work on structural steelwork and/or reinforced concrete structures for industrial buildings.—Apply, with details of experience and salary required, to: PERCY BILTON, LTD., Bilton House, Uxbridge Road, W.5. Quote Ref. W.S.U.

FUEL PUMP MECHANIC REQUIRED, with experience of all types of English and American equipment.—State age and experience to Works Supervisor, WESTERN CONTRACTORS SERVICES, LTD., Severn Road, Hallen, Bristol.

YOUNG MAN REQUIRED as ASSISTANT ESTIMATOR. Experience of builders' quantities and taking-off from drawings essential.—Apply: ACALOR (1948), LTD., Kelvin Way, Crawley, Sussex.

WORKS MANAGERS REQUIRED for large civil engineering contract, South Wales. State age, experience and salary required.—Written applications only to: SIR ROBERT McALPINE AND SONS, LTD., 80 Park Lane, W.1.

CIVIL ENGINEERING SUPERVISOR REQUIRED for the construction of estate roads and sewers in the Leicester/Derby area. Able to level, set out and control labour with proved success. Pension scheme in operation after qualifying period.—Write, giving full particulars and some indication of salary required, to: H. C. JANES, LTD., 183 High Town Road, Luton.

APPOINTMENTS VACANT

CIVIL ENGINEERING ESTIMATORS REQUIRED by SHEPHARD, HILL AND CO., LTD., to work from London office. Preference will be given to Engineers having practical knowledge, age between 30-40 years. Excellent prospects for experienced men able to work on own initiative. Top salary and allowances will be paid to the successful applicants.—Write, giving full details, to Managing Director, SHEPHARD, HILL AND CO., LTD., 25/27 Central Chambers, W.5.

W. AND C. FRENCH, LTD., urgently REQUIRE GENERAL FOREMAN with specialised experience of reinforced concrete bridge construction. Apply in writing, stating age, experience, and salary required, to Personnel Manager, 50 Epping New Road, Buckhurst Hill, Essex.

TECHNICAL ASSISTANT REQUIRED for plant records at head office and stocktaking on civil engineering sites throughout Great Britain.—Please send particulars of experience, qualifications, age, salary required, etc., to Director (Equipment), WEST'S PILING AND CONSTRUCTION CO., LTD., Bath Road, Harmondsworth, Middlesex.

ASPHALT AND TARMACADAM WORKS SUPERVISOR REQUIRED in S.W. London area. Good salary for the right man.—Write, with references and experience, to Box V.1158, "The Contract Journal."

CIVIL ENGINEER.—Keen young Assistant Engineer REQUIRED for large shield driven low-pressure compressed air tunnel contract. — Apply: MITCHELL BROS., SONS AND CO., LTD., 167 Victoria Street, London, S.W.1. Telephone: VICtoria 4978.

For Advertisements received too late for classification see page 577

APPOINTMENTS WANTED

BUYER SEEKS POSITION, London area, 13 years' experience, including buying of percussion and diamond drilling equipment, building materials, tools, etc. — Write Box W.1145, "The Contract Journal."

PLANT MANAGER DESIRES CHANGE, 30 years' experience in all branches civil engineering, able to take full control, office, workshops, stores, etc. Good references.
Write Box W.1140, "The Contract Journal."

FOREMAN/AGENT, roads, sewers, etc., use level. London or Greater preferred. Accustomed sole control.—Write Box W.1161, "The Contract Journal."

CIVIL ENGINEER (43), qualified, with sound technical and business experience, DESIRES RESPONSIBLE APPOINTMENT at head office or on site. Sound experience of setting out, monthly measurement to final account, estimating and planning of most types of C.E. and building contracts.
Write Box W.1160, "The Contract Journal."

ENGINEER-AGENT. — Fully qualified civil engineer (37), general experience, DESIRES CHANGE, £1,500 p.a. Can find first-class G.F., S.O. Engineer willing come too. Top men in search of top firm only.—Write Box W.1153, "The Contract Journal."

AGENT, wide experience civil engineering, public works, multi-storey and good-class buildings, SEEKS PROGRESSIVE POSITION as AREA or CONTRACTS MANAGER. Midlands preferred, but not essential.
Write Box W.1154, "The Contract Journal."

SALES EXECUTIVE, well introduced to all London civil engineering and building contractors, mechanical handling, site plant, etc., REQUIRES POSITION offering more scope to active brain.
Write Box W.1057, "The Contract Journal."

CONTRACTS MANAGER SEEKS RESPONSIBLE APPOINTMENT with medium-sized company in S. England or West Country. Keen, energetic and resourceful, with a very wide range of experience in C.E., building and public works. Sound administrator for both site and office. Capable of complete control and negotiations at top level. Gross remuneration £2,000 and car supplied. Willing to prove ability for six months before attaining permanency in both salary and status. Genuine case from man with 20 years' practical experience in all aspects of the industry, controlling a turnover upwards of £300,000.
Write Box W.1110, "The Contract Journal."

WORK REQUIRED

MOTOR BOAT OWNERS REQUIRE CONSTRUCTIONAL WORK, ATTENDANCE, PERSONNEL, GOODS, TOWAGE, etc. Craft and labour supplied. — Apply: THOMAS BROS., 62 Sussex Road, East Ham, London, E.6. Telephone: GRA 6847/1151.

FOR HIRE or CONTRACT, D7s (1959), D4, D2 BULLDOZERS, 955 TRAXCAVATORS (1959), TRENCHERS, EXCAVATORS of all sizes, DUMPERS, PUMPS, etc.—TRACTORS HIRE (CHISWICK), LTD., 300 Chiswick High Road, W.4. Tel.: CHI 8511/2.

ELECTRICAL INSTALLATIONS, domestic and industrial, UNDERTAKEN speedily and efficiently in Hertfordshire and surrounding counties. Let us quote.—WARECRETE ELECTRICS, Ware. Telephone: Hertford 4045.

EXCAVATION SUB-CONTRACTS. Technical staff available to analyse, programme and price complex projects. Particular attention given to finish and compaction. D9, D8, TD18 and TD14 Scrapers, Excavators, Loading Shovels and Lorries available with competent and imaginative supervision for execution of work.—DICK HAMPTON, Broadview Farm, Blacknest, Alton, Hants. Telephone: Bentley 2241.

SITE CLEARANCE, BULK EXCAVATION. JANES AND CO., LTD., Trading Estate, Slough. Telephone: Slough 20361—Ext. 4.

SAM BOOTH, LTD., Perrymount Chambers, Haywards Heath, Sussex. Tel.: Haywards Heath 1126 and 1258. SUB-CONTRACT or HIRE: D9s, with Bulldozer and Caterpillar 463 Scrapers.

SITE CLEARANCE and BULK EARTH-MOVING with latest machines. Playing Fields Construction and all allied works.—For your contracts in the Southern Counties, consult: G. S. DANIELS, 387 Winchester Road, Southampton. Southampton 68956.

WELL-KNOWN company's southern service works, ideally situated in N.W. precincts of London, whilst mainly engaged in heavy engineering and mechanical handling equipment, has CAPACITY AVAILABLE for ASSEMBLY and SUPPLY of COMPONENT PARTS, etc.—Write Box X.1040, "The Contract Journal."

WORK REQUIRED

BITUMINOUS and TARRED MACADAM WORK WANTED within 50 miles Liverpool. Estate roads, paths, car parks, etc.—D. S. O'BRIEN AND CO., Olive Mount, Birkenhead. Telephone: Birkenhead 6605.

SUB-CONTRACTS WANTED, Labour only. Foundations, concreting, drainage, gas and water mains, G.P.O., road pitching, etc.—J. FOLAN AND HARRIS, 27 Richmond Mount, Headingley, 7. Te.: Leeds 58316.

SOILING, SEEDING and TURFING. Site Clearance, Excavation and Levelling Work undertaken in any part of the U.K. at competitive prices. GILLIAM, Purley, Surrey. Telephone: UPLands 9222/6.

FOR HIRE in Midlands, new Blaw Knox PF90 PAVING MACHINES, complete with experienced operators (and gang) if required. Sub-contract work or price per ton for material laid (Macadam, Asphalt, Wetmix, Leanmix Concrete, etc.).—For full details, apply: CAMMIDGE ROAD CONSTRUCTIONS, LTD., 14/26 Henrietta Street, Coventry. Tel.: Coventry 88473.

CONCRETE BREAKING and CLEARANCE. Highly competitive rates, firm prices. Sites inspected without obligation.—'Phone: Mountview 2585, 7-10 a.m. or evenings.

UPROOTING — TREES, STUMPS, HEDGES, etc. We have the most experience and all modern equipment.—T. GRAVESON, LTD., Warton, Carnforth, Lancs. Telephone: Carnforth 381 and 382.

DROTT SKID SHOVEL (4-in-1) on BTD6 Tractor, fitted Boughton Winch, available for HIRE or CONRACT WORK at keen rates.—JAMES COOPER, LTD., 28 Kensington Church Street, London, W.8. Telephone: Western 3412.

BULK EARTHMOVING, direct contract or sub-contract. Also BULLDOZERS and SCRAPERS for HIRE.—FRANK R. WALPOLE, LTD., 126 Wing Road, Leighton Buzzard, Beds. Leighton Buzzard 3351.

EXCAVATION, SITE CLEARANCE, DEMOLITION and all PUBLIC WORKS PLANT HIRE. SUB - CONTRACT WORK WANTED. K. MIKOLAY AND SON, Public Works, Demolition Contractors, Plant Hirers, Station Approach, Newhaven, Sussex. Telephone: Newhaven 344 and Seaford 2041.

FOR HIRE OR SUB-CONTRACTS. TD18s and BTD6 BULLDOZERS and SCRAPERS, BTD6 and TIMBER WINCH, Caterpillar TRAXCAVATOR, 1¼ cu. yd. Bucket. Competitive rates. Experienced operators. Go anywhere.—COTSWOLD HAULAGE, Tanfield House, East Street, Farnham, Surrey. Tel.: Farnham 4049 day and night.

IF GRADING, SEEDING, TURFING and PLANTING form part of your CONTRACT, we will be pleased to quote you.—HOLDRUP, 139 Bells Hill, Barnet. Telephone 9111.

WANTED, HIRE or CONTRACT WORK for modern fleet of DW21s, D9s and D8s.—Apply: BRODERICK AND RYAN, LTD., 421 Nottingham Road, Ilkeston, Derbyshire. Telephone: Ilkeston 4381/2.

IF TREES, ROOTS or UNDERGROWTH feature in your contract, we would be pleased to quote for their ECONOMICAL DISPOSAL. BAGSHOT SAWMILLS, LTD., 32 London Road, Camberley, Surrey. Telephone 14.

ALLEN OXFORD GRADERS for HIRE. GRASSPHALTE, LTD., Hampton Hill, Middlesex. Telephone: Molesey 4343.

BULK EXCAVATIONS, any quantity quoted for, own plant and lorries. COFF AND SON (EXCAVATIONS), LTD., Buckhurst Hill, Cheapside, Ascot, Berks. Ascot 1026/7/8.

WANTED, EXCAVATION, SITE CLEARANCE and DEMOLITION WORK. R. BARKER (PECKHAM), LTD., New Cross 3337.

BULK EXCAVATIONS and SITE WORKS undertaken. DIRECT or on SUB-CONTRACT basis. Quotations given for large or small contracts anywhere. S. AND L. BULL BROS., LTD., 126A High Street, Winchester. Winchester 2264.

ERECTION and DISMANTLING. Structural Steelwork and all types of Prefabricated Components. Speedy and efficient service.—ERECTORS, 80 Bulwell Cres., Cheshunt, Herts. Waltham Cross 22564.

BLASTING by EXPERTS on any project in the U.K.—Consult: CLARKE DEMOLITION AND CONSTRUCTION CO., LTD., Waldringfield, Ipswich, Suffolk. Telephone: Waldringfield 663.

BULK EARTHMOVING, OVERBURDEN STRIPPING, EXCAVATIONS for roads, airfields, etc., with large fleet of Caterpillar D8 and D7 Tractors. Keenest prices for work anywhere in the country. CONTRACTORS' PLANT HIRING CO., LTD., Barkby Road, Leicester. Tel.: Leicester 66631 (4 lines). NORTHERN REPRESENTATIVE: 91 Shaw Road South, Shaw Heath, Stockport. Telephone: STOckport 3082.

EARTHMOVING in South-West carried out by modern fleet of machines—hire or contract. Traxcavators, motor scrapers, bulldozers, excavators and mobile cranes. — GRANGE PLANT, LTD., Honiton, Devon. (Tel.: Broadhembury 330-355.)

SITE CLEARANCE, EXCAVATION. MOBILE HAULAGE, LTD., 230 Tottenham Court Rd., London, W.1. Langham 7833/5.

MUD and WEEDS DREDGED from reservoirs, lakes, rivers and canals.—BOMFORD AND WILKINS, LTD. (incorporating the Dredging Department, formerly of Bomford and Evershed, Ltd.), Salford Priors, Evesham, Worcs.

PARTNERSHIPS

ENERGETIC WORKING PERSON with capital offered HALF INTEREST in civil engineering concern, Manchester area, £3,000. Write Box X.1152, "The Contract Journal."

BUSINESSES—SALE OR WANTED

STEEL MILLS with electric drive. South Wales port. Good future orders. Freehold premises approx. 10 acres, room to expand. Principals only. Write Box X.1068, "The Contract Journal."

MEDIUM-SIZED BUILDING COMPANY wishes to ACQUIRE a similar company with suitable premises in the Greater Birmingham area. This is an opportunity which would be suitable where owners wish to retire or provide for estate duty. A company with losses would be considered. — Details from Box X.1155, "The Contract Journal."

INVENTIONS

INDUSTRIAL ENGINEERS of repute invite, in strict confidence, DETAILS of INVENTIONS with object of manufacturing and world distribution. Write Box K.L.517, "The Contract Journal."

ACCOMMODATION

CARAVANS to RENT for men with families. Rent £7 to £17 per month. Delivery anywhere. LANDSMAN'S SERVICES, Buckden, Huntingdon. Telephone: Buckden 287.

ACCOMMODATE your employees in a cosy 4-berth CARAVAN, fully equipped with heating, lighting, cooking and washing facilities. Hire rates from 50/- per week for four persons. Caravans delivered anywhere.—NORTHERN CARAVAN DISTRIBUTORS, LTD., Handforth, Cheshire. Tel.: Mercury 4255/6.

LAND AND PROPERTY

CITY OF HEREFORD. Extensive Single-storey ENGINEERING WORKS, with separate office block, garage/workshops, etc. 21,000 sq. ft. covered area, on 5-acre site, with planning consent for development. All essential services. ¼-mile main Abergavenny Road, 3 miles City Centre. Large housing estates nearby. Good labour pool. To be LET at only 2/- per sq. ft. p.a., or £2,000 p.a.—Full details and plans from Sole Agents, HAMPTON AND SONS, 6 Arlington Street, St. James's, S.W.1. Tel.: HYDe 8222.

FOR SALE, freehold, Northampton, SHUTDOWN BRICKWORKS, approx. 1½ miles A.5. Long Buckby Goods Yard, 100yd. Suitable plant yard for public works contractors. 10.33 (approx.) acres partially clay pit.—Further details from Box X.1165, "The Contract Journal."

PROFESSIONAL SERVICES

CIVIL ENGINEERING CLAIMS.—Director/Consultant Engineer, with long and varied experience in high-level negotiation of contractors' claims, OFFERS SERVICES on a fee/commission basis. Write Box X.1058, "The Contract Journal."

CARR'S QUIPS.—ESTIMATES. This is the year to make the cash—so send in your tenders and have a real "bash."—R. J. CARR, Britain's Top Free-lance Estimator, 42 Coombe Road, New Malden, Surrey. Tel.: Malden 8640.

CIVIL ENGINEERING SERVICES available on fee basis to contractors not desirous of maintaining permanent engineering staff. Setting out, surveys, preparation of monthly certificates, final accounts, claims, estimates, etc. Own transport.—Write Box X.9962, "The Contract Journal," or 'phone ADDiscombe 3712.

DIVING

DIVERS IMMEDIATELY AVAILABLE. Welding, cutting, construction, etc., any part of world. UNDER WATER WELDERS AND REPAIRERS, LTD., Cardiff. Telephone 29631 (After hours: Penarth 58131.)

J. HOGAN, Diving Contractors, 32 Riverside Avenue, North Wallington, Fareham, Hants. Telephone: Fareham 3057. Facilities include amphibious craft and diving boats. Specialists in sea outfall construction and repair, dock installations, foundation work, block laying, blasting, etc. All types of submarine civil engineering work undertaken.

DIVING WORK REQUIRED. All classes, competent divers.—A. J. PARSLOE, Diving Contractor, 14 Haig Avenue, Brighton, 6. Tel. 61228.

DIVING EQUIPMENT for SALE, surplus to requirements.—A. J. PARSLOE, 14 Haig Avenue, Brighton, 6. Tel. 61228.

HORTICULTURAL

TOP SOIL.—200,000 cu. yd. available, delivered in large and small quantities. Soil supplied ex site in approved cases.—LATHAM AND CO. (CONTRACTORS), LTD., Westward House, Guildford Road, Lightwater, Surrey. Tel.: Bagshot 2037 and 2400.

A KEEN quotation for your TURFING, SEEDING and HEDGING CONTRACTS: London and Home Counties.—R. J. ENSTONE AND SON, LTD., Head Office, 34 Alma Rd., St. Albans. (St. Albans 55528.)

TURFING — SEEDING — HEDGING. Quotations for all branches of landscape work, anywhere in the U.K. C.E. contracts a speciality. WEBSTER BROS., Horsforth, Leeds. Horsforth 2364.

BUY the genuine CHILTERN TURF. Instructions for laying supplied free. Guaranteed satisfactory results. Turves 3ft. x 1ft., precision machine cut, weed treated, close mown, £3 per 100 delivered. Let us quote you for levelling and laying with guaranteed Chiltern Turf or Grass Seed. Building estates laid-out for contractors. Orders taken weekdays 9-5.—CHILTERN CONTRACTORS, Cryers Hill, High Wycombe, Bucks. Tel.: Holmer Green 3127.

TURVES.—Machine-cut 3ft. x 1ft., close-mown, weed-treated, 60/- per 100. Keen trade rates. We would be pleased to quote for your levelling and laying.—E. R. RANCE, LTD., 24 Sheepcot Lane, Watford. Telephone: Garston 2725.

ROTARY CULTIVATION, GRADING, LEVELLING or EARTHMOVING. ROTARY CULTIVATORS also for HIRE.—JAMES COOPER, LTD., 28 Kensington Church Street, London, W.8. Telephone: Western 3412.

MASSEY - FERGUSON 65 TRACTORS for HIRE, also comprehensive range of ATTACHMENTS, including Tipping Trailers, Loaders, Rotavators, and all Land Cultivation Implements. Turf-cutting Machines, etc. C.E. contractors catered for.—RINGWAY CONTRACTORS, LTD., Horsforth, near Leeds. Telephone: Horsforth 4805.

SEEDING, TURFING, HEDGING, ROTARY CULTIVATION, etc. COWELL, Agricultural Contractors, Croston Rd., Farington, Leyland. Leyland 81243/81849.

QUICKTHORN HEDGING PLANTS, strong, bushy, transplanted, 240/- per 1,000, 18in.-24in. high, less 10/- per 1,000 for 10,000 lots. Carriage paid for C.W.O.—BLAKEDOWN NURSERIES, LTD., Blakedown, Kidderminster.

FULLER HORSEY
SONS & CASSELL

AUCTIONEERS AND VALUERS OF PLANT, MACHINERY AND FACTORIES

Since 1807

10 LLOYDS AVENUE
LONDON E.C.3

TELEPHONE: ROYAL 4861

Rothbone

SALES BY AUCTION

By Order of the Secretary of State for War.
E — ♣ — R
READING, BERKS.
RANIKHET CAMP, TILEHURST.
At Church End Lane, off Norcot Road, about 1½ miles out from Reading.
AN IMPORTANT AUCTION SALE OF
24 EXCELLENT ARMY HUTS,
All of timber construction, with sound weatherboarded exterior, boarded and felted or corrugated asbestos clad roofing, timber flooring, matchboard and hardboard linings, partitions, etc. Some containing useful Lighting, Heating, Sanitary and other Domestic Fittings. The huts are all in good sound condition, very suitable for village halls, pavilions, clubhouses, recreational, industrial and agricultural purposes. Dimensions vary from 60ft. x 20ft. to 180ft. x 25ft.

SCAMMELL AND SMITH are instructed to sell the above by AUCTION, in lots, at the CAMP as above, on WEDNESDAY, 17th FEBRUARY, 1960, at 11.30 a.m.
On view two days prior to the Sale.
Admission by catalogue (price 4d.) of the Auctioneers, The Auction Mart, Eastleigh, Hants. (Tel. 2201-3); and at Chandler's Ford, Hants.

FENGATE, PETERBOROUGH, NORTHAMPTONSHIRE.
FOX AND VERGETTE
will sell by AUCTION
on FRIDAY, 26th FEBRUARY, 1960,
CIVIL ENGINEERING PLANT AND EQUIPMENT, VEHICLES, WORKSHOP MACHINERY AND SPARES
— including —
Henderson 10-ton Twin Cableways; 14 Excavators (10RB, 17RB, 19RB, Smith, N.C.K. and Priestman); Two R.R. Mobile Cranes; Five 5-ton Coles Cranes (Thornycroft and A.E.C.); 15 Tractors (D7, D6, D4, BTD6, TD9, Fowler, County Crawler, Ford Half-track); Caterpillar Traxcavator; Two Howard Trenchers; Muir-Hill and Chaseside Shovels; 10 Aveling-Barford and Six Drayton Dumpers; Two 9 cu. yd. Euclid Rear Dump Trucks; 19 Mixers (125, 105, 107, 14/10); Nine Compressors (Static, Mobile, 2/6-Tool); 13 Lorries (Bedford, Dodge, Ford Tip, Foden, Ford Tanker, Bedford Artic.); Four Vans (Ford and Lloyd); Climax Fork Lift and Lister Auto Truck; Six Godfrey Blowers, with Electric Motors; Miscellaneous Spares and Workshop Machinery, including Lathes, Bench Drills, Milling and Grinding Machines.
Sale starts at 11 a.m.
Catalogues available from FOX AND VERGETTE, 16 Priestgate, Peterborough (Tel. 4261/2).

SALES BY TENDER

COUNTY BOROUGH OF SOUTHPORT.

The COUNCIL invites OFFERS for BALED TINS (Pressed), collected along with the house refuse during a period of 12 months from 1st April, 1960.
The General Conditions and Forms of Tender may be obtained from the Borough Engineer, Town Hall, Southport.
Offers, endorsed "Offers for Baled Tins," must be delivered to the undersigned by 22nd FEBRUARY.

R. EDGAR PERRINS,
Town Clerk.

BOROUGH OF BEDDINGTON AND WALLINGTON.

DISPOSAL OF SURPLUS MATERIALS.

TENDERS are invited for the PURCHASE of SURPLUS MATERIALS, including Ironmongery, Paint, Vehicle Spares, Road Materials, Stoneware Goods, etc.
Full list from Borough Engineer, Town Hall, Wallington, Surrey.

A. B. BATEMAN,
Town Clerk.

ESSEX RIVER BOARD.

SALE OF FOWLER TRACTORS.

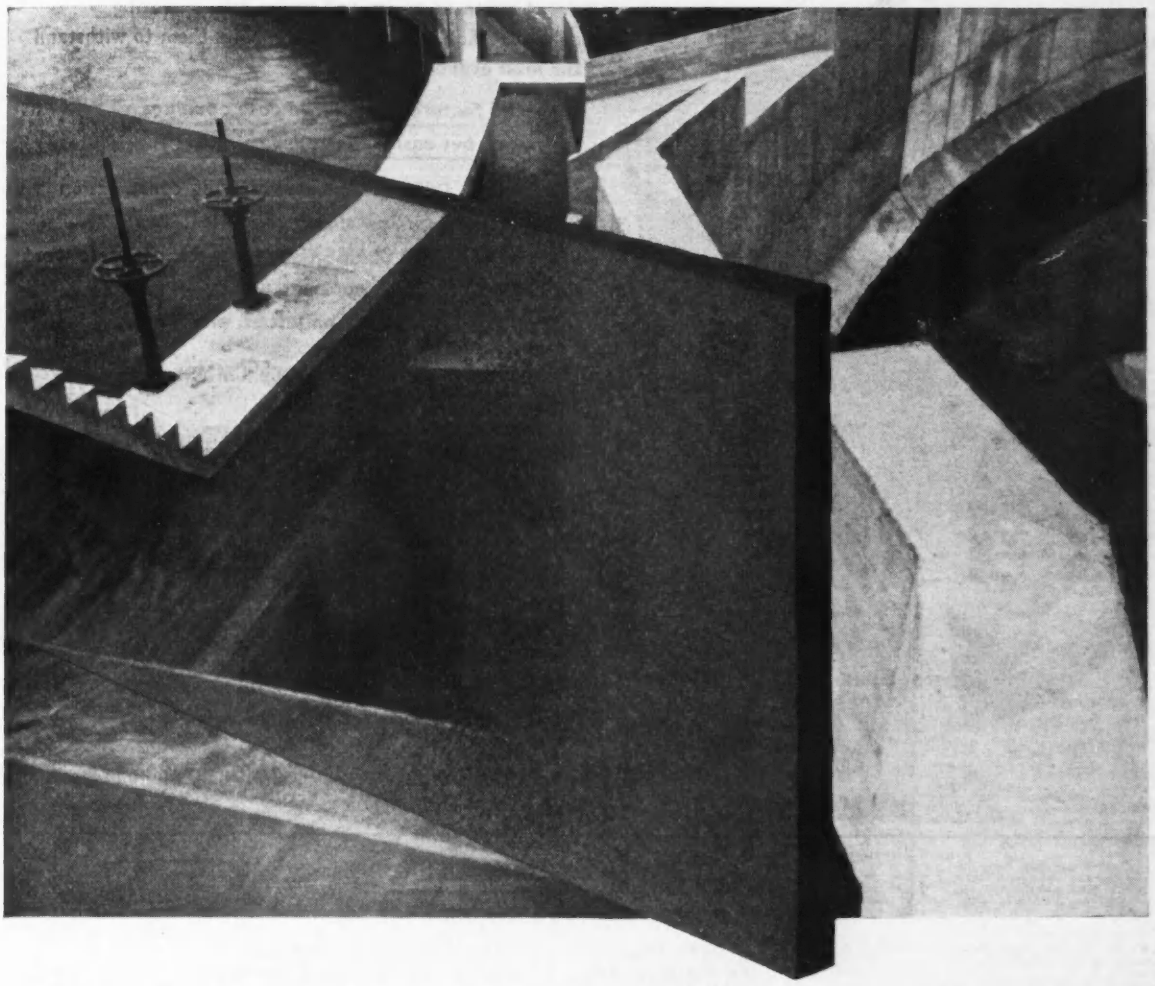
TENDERS are invited for the FOLLOWING TRACTORS:—
Tractor No. 18.—Licence No. 289BEV, as standing at Cuton Hall, with Angledozing Equipment, but engine dismantled and incomplete.
Tractor No. 19.—Licence No. 376BNO, complete with Angledozing Equipment.
A quantity of Spare Parts.
Further details and Tender Forms may be obtained from the undersigned on application.
Tenders should be returned by the 12th FEBRUARY, 1960.

(Signed) W. J. S. BEW,
Clerk of the Board.

Rivers House,
New Writtle Street,
Chelmsford, Essex.
26th January, 1960.

AGENCIES

CIVIL engineering contractors (specialists) offer a remunerative REPRESENTATION to an active FREE-LANCE REPRESENTATIVE with existing connection with contractors, industrial concerns and nationalised industries in each of the following centres: London, Birmingham, Newcastle and Bristol. Knowledge of reinforced concrete desirable. Commission basis and retainer fee.—Full particulars to Box X.1093, "The Contract Journal."



The constructional problems encountered in building this reservoir are similar to those found in a wide variety of water-retaining structures. It is imperative that joints between supporting columns and the floors are resistant to seepage and yet allow for any expansion or contraction between them.

Expandite products solved this problem of 'joints-that-move'. PVC Hydrofoil waterstops were cast in the concrete; the joints were then packed with strips of 'Flexcell', a non-extruding joint filler (specially manufactured for Expandite by Celotex Ltd.) and then top-sealed with 'Pli-astic', a hot-poured rubber-bitumen joint sealing compound and, in certain cases, with 'Plastijoint' flexible, waterproof sealer.

Movement was allowed for, but, because all these products are sufficiently flexible to allow for movement and yet retain their original shape on contraction, no seepage will occur.

Problems of 'joints-that-move' take many forms, but Expandite Limited manufacture products to solve them all. Architects, Builders and Civil Engineers are offered advice—without any obligation—on all sealing and jointing matters they may wish to put before the Expandite Technical Service Department.

ANOTHER JOINTING PROBLEM SOLVED

EXPANDITE LIMITED

Specialists in the manufacture and use of Joint-Fillers, Sealing and Waterproofing Compounds, Concrete Additives, Anti-Corrosion Treatments and Mechanical Appliances.
CHASE ROAD, LONDON, N.W. 10. TELEPHONE: ELGAR 4321 (14 lines)
Northern Depot: Trafford Park Road, Manchester 17. Eire: Expandite (Ireland) Limited, Greenhills Road, Walkinstown, Dublin.
ASSOCIATES AND DISTRIBUTORS THROUGHOUT THE WORLD

Blaw Knox Concrete Buckets

are of advanced design and assure high operating efficiency. Robust construction enables them to withstand the most arduous conditions.

A special feature is the large gate opening for rapid, but easily controlled, discharge.

CLAMSHELL GATE *for general building construction*
ROLLER GATE *for low slump concrete*
COMPRESSED AIR CLAMSHELL *for mass concrete work*
HYDRAULIC *for mass concrete work*
UNDERWATER *for work on jetties, piers, etc.*

a complete range for every application

BLAW KNOX

Concrete Buckets

For full details write for Publication No. 126.

BLAW KNOX LIMITED Box No 146 90/94 Brompton Road London SW3

Telephone: KENsington 5151

BK 566

INDEX TO ADVERTISERS

Page

A

A.B.C.D. (Raynes Park), Ltd. 552
Abelson & Co. (Engineers), Ltd. 536
Acworth, E. G. ....iib
Allam, E. P., & Co., Ltd. 522, 528
Allen, John, & Sons (Oxford), Ltd. 611
Armstrong-Whitworth (Metal Industries), Ltd. 533
Arup & Arup, Ltd. ....xxb
Astolat Co., Ltd. 550
Atkinson's Agricultural Appliances, Ltd. xvi
Atlas Copco (Great Britain), Ltd. ....Cover vii
Atlas Lighting, Ltd. 621
Audux 552
Avon Insurance Co., Ltd. 638

B

Bamford, J. C., (Excavators), Ltd. ....iiib, ivb, vb, vib
Batley, Ernest, Ltd. 522
Benford, Ltd. ....Cover iv
Blaw Knox, Ltd. 576
Bowmaker (Plant), Ltd. ....xvb
Braham, Patterson & Benham, Ltd. 554
Branch, Jack, (London) 552
Bristol Pneumatic Tools, Ltd. ....ib
British Cellophane, Ltd. 640
Broom & Wade, Ltd. ....iia
Buckton, Ltd. 620

C

C. & A. Plant Services, Ltd. 618
Caledonian Tractor & Equipment Co., Ltd. ....xb
Cartruk, Ltd. 522, 634
Caterpillar Tractor Co., Ltd. ....viiib, ixb
C.E.T. (Plant), Ltd. v
Chamberlain Plant, Ltd. 640
Clifton, I., & Sons, Ltd. xvi
Cohen, George, Sons & Co., Ltd. 525
Cole, E. R., Ltd. 532
Compactors Engineering, Ltd. 529
Contractors' Services, Ltd. ....va
Corrie, J. B. (Flextelia) Ltd. 528
Costain, Richard, Ltd. 578
Cowley, Martin, Ltd. 555
Cox & Danks, Ltd ....via
Cox, H., & Sons (Plant Hire), Ltd. 532
Cripps, R., & Co., Ltd. xi
Cummins Engine Co., Ltd. ....Cover ii, iii

D

Dandridge, Arthur F., Ltd. 550
Davies, O. L., Ltd. 554
Dawson, W. A., Ltd. 556
Derbyshire Tractor Service 634
Dodge Bros. (Britain), Ltd. 637
Doe, Ernest, & Sons, Ltd. ....viib, 523

E

Enfield Industrial Engines, Ltd. 633
Equity Credit Co., Ltd. ....via
Expandite, Ltd. 575

F

Foster, Arthur, (Construction Engineers), Ltd. 552
Frodingham Cement Co. 559

Page

G

Garringtons, Ltd. 643
Gazeway Plant Hire, Ltd. 556
General Roadwork, Ltd. 613
General Electric Co., Ltd. ....iva
G.K.N. Reinforcements, Ltd. ....xixb
G.M. Power Plant Co., Ltd. 546
Goodyear Tyre & Rubber Co., Ltd. 612
Green, Thomas, Ltd. 635
Greenham Equipments, Ltd. 638

H

Holman Bros., Ltd. 547

I

International Harvester Co. of Great Britain, Ltd. ....ii, iii

J

Johnson, C. H., (Machinery), Ltd. 549
Johnston, J. J., & Co., Ltd. 550
Jones, William, Ltd. 552

K

Kebric (Plant), Ltd. 553
Kingston Plant Hire, Ltd. x
Kirkby & Sons (Sales), Ltd. 550

L

Lafarge Aluminous Cement Co., Ltd. 559
Leach, Hubert C., Ltd. 620
Leverton, H., & Co., Ltd. ....xib
Leyland Motors, Ltd. 623
Lewis & Lewis, Ltd. 530
Liner Concrete Machinery Co., Ltd. 550, 642
Lloyd, S., & Co. 550
Lytag, Ltd. ....viia

M

Mackay Industrial Equipment, Ltd. ic
Mathew Brothers ....xvib, xviib
Mercantile Credit Co., Ltd. 641
Merton Engineering Co., Ltd. ....xviiib
Metal Union (Plant), Ltd. 546
Midland Tunnelling, Ltd. 524
Mills Scaffold Co., Ltd. 548
Mobile Haulage Co., Ltd. 636
Moore's Plant, Ltd. 545, 624
Mountsorrel Granite Co., Ltd. ....viiia
Mullard, D. A., & Co., Ltd. 524, 640

N

National Federation of Demolition Contractors 534, 535
Nuffield Organisation ix

O

Oldbury, Isaiah, Ltd. 618
Olding, Jack, & Co., Ltd. 531

P

Parker, Frederick, Ltd 521
Pashley & Trickett, Ltd. ....Cover v
Patentools, Ltd. 622
Peel, H., Ltd. 554

Page

P

Permanite, Ltd 633
Petters, Ltd. 551
Phœnix Shovel Co., Ltd. 636
Pike, George, Ltd. 615
Pilot Works, Ltd. ....Cover vi
Potter, F. W., & Soar, Ltd. 622
Power Diggers, Ltd. xiv

R

Randall, J. H., & Son, Ltd. 536
Road Machines (Drayton), Ltd. 526, 527
Ruston-Bucyrus, Ltd. ....vi, vii
Ryland Bros., Ltd. 617

S

Saville (Tractors), Ltd. ....xxb, 560
Search, William G., Ltd. 552
Selwood, William R., Ltd. 644
Sharp Jones & Co., Ltd. 614
Simdine xii
Simms, Sons & Cooke, Ltd. 558
Sintered Products, Ltd. 639
Smith, Thos., & Sons (Rodley), Ltd. 619
Sommerfelds, Ltd. 636
Southern Plant Services, Ltd. ....ia
Stack Protection, Ltd. 524
Stanton Ironworks Co., Ltd. ....iiia
Steel Fabricators (Cardiff), Ltd ....xiib, xiiib
Sterling Safway Scaffolding ....ivc, vc
Survey & General Instrument Co., Ltd. 633
Swiftplan, Ltd. 616
Sykes, Henry, Ltd. xv
Symes (Plant Sales), Ltd. 546

T

Thwaites Engineering Co., Ltd. xiii
Timco, Ltd. 638
Tirfor, Ltd. 618
Transplanters (Robot), Ltd. 642
Turner Manufacturing Co., Ltd 622

U

Under Water Welders & Repairers, Ltd. 615
Universal Divers, Ltd. 530

V

Val de Travers Asphalte Paving Co., Ltd. 615
Vales Plant Register, Ltd. i
Vauxhall Motors, Ltd. 557
Vickers-Armstrongs (Tractors), Ltd. ....vic, viic
Victor Products (Wallsend), Ltd. 530
Vigzol Oil Co., Ltd. iv

W

Ward, Thos W., Ltd. ....viii, Cover viii
Weatherill, F. E., Ltd ....xivb
Wernick, S., & Sons, Ltd. 644
Whitlock Bros., Ltd. ....iic, iiic
Wilmslow Plant Hire Co., Ltd. 644
Winget, Ltd. ....Cover i

Y

Youngman, W. C., Ltd. viiic

Advertisements received too late for Classification

COUNTY BOROUGH OF WOLVERHAMPTON.

TENDERS, 1960/61.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED SERVICES during the year ending 31st March, 1961:

Labour Only—Paving Works.

Particulars and Forms of Tender may be obtained from the Borough Engineer, Town Hall, Wolverhampton, on payment of a deposit of Two Guineas, returnable only upon receipt of a bona-fide Tender.

Tenders to be sent, in the envelope provided, to the TOWN CLERK, Town Hall, Wolverhampton, by MONDAY, 22nd February, 1960.

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

SEWAGE DISPOSAL WORKS, HOLDENHURST—RECORDING EQUIPMENT.

QUOTATIONS are invited for the SUPPLY of FLOAT-OPERATED and ELECTRO-MAGNETIC SEWAGE FLOW RECORDERS.

Details available from Borough Engineer, Town Hall, Bournemouth, to whom Quotations should be sent by 9th MARCH, 1960.

A. LINDSAY CLEGG,
Town Clerk.

CHIGWELL URBAN DISTRICT COUNCIL.

FAIRVIEW ROAD, CHIGWELL.

The Council invites TENDERS for WORKS comprising approx. 270 lin. yd. Surface Water Sewer, Carriageway Drainage, 680 lin. yd. Kerbing, 1,970 sq. yd. Carriageway, 730 sq. yd. Footways.

Tender Forms, Bills and Specification on deposit of £2 2s. (returnable after submission of bona-fide Tender not subsequently withdrawn and return of documents) from Engineer and Surveyor (address below, where Drawings and Contract Conditions may be inspected). Contract will provide for Fair Wages Clause and Bond.

Tenders, in sealed envelope (provided), bearing no mark indicating sender, to be delivered to the CLERK OF THE COUNCIL, Council Offices, Old Station Road, Loughton, Essex, by 1st MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

SKIPTON RURAL DISTRICT COUNCIL.

HEBDEN SEWERAGE AND SEWAGE DISPOSAL SCHEME.

TENDERS, on a FIXED-PRICE BASIS, are invited from experienced public works contractors for the CONSTRUCTION of approx. 2,278 lin. yd. of 6in. SALT GLAZED WARE SEWERS, 154 lin. yd. 6in. CAST-IRON SEWERS, and 47 BRICK MANHOLES, together with the NEW SEWAGE DISPOSAL WORKS, comprising Detritus Tanks, Percolating Filters, Storm Water Tanks, Humus Tanks, Sludge Drying Bays and other appurtenant Works.

Conditions of Contract and Plans of the Works may be inspected, and Specification, Bills of Quantities and Form of Tender obtained from the Engineer and Surveyor at the address below, upon payment of a deposit of Three Guineas, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn and on the return of all documents.

Tenders, in plain sealed envelopes, endorsed "Hebden Sewerage," must reach the undersigned not later than First Post on FRIDAY, the 26th February, 1960.

E. GILBERT SHARP,
Clerk of the Council.

Council Offices,
Granville Street,
Skipton,
Yorks.
28th January, 1960.

T.H. CONTRACTORS, LTD., REQUIRE ENGINEERS, age 20-26, for roadworks and main drainage contracts in London area and Southern Counties. Good prospects for keen young men who are competent and experienced in setting-out, etc. Must possess clean driving licence. — Apply, stating details of training and experience, age, and salary required, to T.H. CONTRACTORS, LTD., 300 Chiswick High Road, London, W.4.

WANTED, FOREMEN CARPENTERS for major civil engineering contracts in the south-west area of Devon and Cornwall. Only experienced men need apply. Top wages, subsistence and bonus payable to successful applicants.—Write Box V.1141, "The Contract Journal."

MANAGER REQUIRED to take charge of new plant hire company in Bristol area. Part of well-established group, with good pension scheme. Wonderful prospects for conscientious, energetic and ambitious man with suitable experience.—Applications, in confidence, to Box V.1137, "The Contract Journal."

MANAGER REQUIRED by company engaged in sportsfield and landscaping contracts. Experienced administrator and organiser. Permanent position for keen man. — Write Box V.1136, "The Contract Journal."

TECHNICAL ASSISTANT/ENGINEER is REQUIRED at our Southern Area office in Reading. The candidate will be required to assist in costing, buying and programming, with possibly occasional instrument work in the field.—Please apply in writing, giving details of age, experience, and salary required, to LOWTON CIVIL ENGINEERING, LTD., 375a Oxford Road, Reading, Berks.

GENERAL FOREMEN REQUIRED for heavy civil engineering contracts in the South Wales area. Only fully experienced personnel need apply. Good salaries and prospects; pension scheme.—Apply, giving full particulars, to JOHN MORGAN (BUILDERS), LTD., 14 Cathedral Road, Cardiff.

SIR ALFRED McALPINE AND SON, LTD., urgently REQUIRE experienced CIVIL ENGINEERS for contracts in South Lancashire and Cheshire. Good prospects and staff pension scheme.—Apply in writing, stating age, qualifications, experience and salary required, to Sir Alfred McAlpine and Son, Ltd., Hooton, Wirral, Cheshire.

FOR SALE.
Three Vickers VR180 TRACTORS, fitted with Hydraulic Dozers and Winches. The lot £2,000.
One Carlisle GRADER, in good working order, £750.
One DW10, fitted with new Leyland Engine, £2,000.
One D8 8R, fitted with Winch, £1,000.
One HD10, base machine, £250.
One Model P 12yd. L.T. SCRAPER, £600.
Four D8 Hyster WINCHES. The lot £800.

Further details from:
C. A. BLACKWELL (CONTRACTS), LTD., Coggeshall Road, Earlscolne. Telephone: Earlscolne 537.

WOLVERHAMPTON COUNTY BOROUGH.

WOLVERHAMPTON CORPORATION WATER UNDERTAKING.

HILTON WATERWORKS.

COMPLETION OF BUILDINGS.

Contractors desirous of TENDERING for the CONSTRUCTION of ADDITIONAL BUILDINGS, together with the Decorative Finish to an Existing Pumphouse for the Wolverhampton Corporation, are invited to send to the WATER ENGINEER AND MANAGER, 37 Merridale Road, Wolverhampton, a deposit of Three Pounds for the Contract documents, not later than 15th FEBRUARY, 1960, which deposit will be refunded on receipt of a bona-fide Tender not subsequently withdrawn and the return of the documents.

CITY OF CARDIFF.

CORPORATION WATERWORKS.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of a REINFORCED CONCRETE SERVICE RESERVOIR (capacity 2 million gallons), and ancillary works, at LECKWITH, near Cardiff.

Specification, Drawings and Form of Tender may be obtained from the Water Engineer and Manager, to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to Cardiff Corporation and crossed "Not Negotiable and Co." The deposit will be refunded on receipt of the Contract documents.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Leckwith Reservoir," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than 8th MARCH, 1960.

The envelope must not bear the name of, or any mark indicating the identity of, the tenderer.

Completed Bills of Quantities are not to be submitted with the Tender, but must be sent, completed in ink, so as to be in the hands of the Water Engineer and Manager within three days after written request following the opening of the Tenders.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
February, 1960.

KERRIER RURAL DISTRICT COUNCIL.

DEMOLITION OF HUTTED CAMP AND REMOVAL OF FITTINGS.

TENDERS are invited for the DEMOLITION to Slab Level of 22 HUTMENTS, comprising 34 Units of Accommodation, at TRELANVEAN in the Parish of St. Keverne; the successful contractor to retain all Fittings and Equipment therein.

Plan, Specification of Works and Form of Tender may be obtained from the undersigned on payment of a deposit of £1 1s., which will be returned on receipt of a bona-fide Tender.

Sealed Tenders, in the envelope provided, must be submitted to the undersigned by 10 a.m. on SATURDAY, the 5th March, 1960.

The Council does not bind itself to accept any Tender submitted.

W. J. THOMAS,
Clerk of the Council.

Council Offices,
The Willows,
Helston, Cornwall.
26th January, 1960.

FOREMAN-AGENT REQUIRED for private street works in Kent. Must have drive and ability to take sole control of site and records. — Apply JOHNSON BROS. (AYLESFORD), LTD., Vale Road, Tonbridge, Kent.

WANTED, GENERAL FOREMAN for major civil engineering contracts in the south-west area of Devon and Cornwall. Only experienced foremen need apply. Top wages, subsistence and bonus payable to successful applicants. — Write Box V.1135, "The Contract Journal."

CIVIL ENGINEERING ESTIMATORS: Large firm of civil engineering contractors REQUIRE experienced Estimators for preparing tenders for motorways and similar projects. Permanent post, with good prospects and staff pension scheme.—Write, stating age, qualifications, experience, and salary required, to Box V.1133, "The Contract Journal."

QUALIFIED COST ACCOUNTANT REQUIRED by large firm of civil engineering contractors. Experience in costing this type of work is absolutely essential. Permanent post, with good prospects and staff pension scheme. — Write, stating age, qualifications, experience, and salary required, to Box V.1134, "The Contract Journal."

WANTED, PUBLIC WORKS FITTERS. Top rates paid.—Apply WILLMENT BROS., LTD., Crane Street, Pontypool, Mon.

WANTED, ENGINEER/AGENTS and SITE ENGINEERS—Apply in writing to WILLMENT BROS., LTD., Crane Street, Pontypool, Mon.

EXPERIENCED BUYER REQUIRED by SPICERS (BUILDERS), LTD., Ombersley Road, Worcester. Fully competent in all trades, to prepare schedules from bills of quantities, drawings. State age, experience, and salary required.

REQUIRED, ENGINEERS for planning and design offices. Applicants must have had experience in planning of civil engineering or building contracts or design of reinforced concrete and temporary structures. Salary commensurate with experience; bonus and pension scheme in operation.—Applications should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

REQUIRED, PUBLIC WORKS FOREMEN and GANGERS — Apply WILLMENT BROS., LTD., Crane Street, Pontypool, Mon.

AGENT REQUIRED for sewage works contract in Midlands. Must be experienced in reinforced concrete work. Permanent position with prospects for suitable applicants. Attractive salary and bonus offered.—TARSLAG, LTD., Wolverhampton.

SMALL but expanding firm, situated 25 miles south of London, with modern earthmoving machines, wishes to contact young, experienced PERSON conversant with estimating and with the construction and renovation of roads, drives and drains, with view to ultimate partnership. — Write Box V.1159, "The Contract Journal."

COUNTY BOROUGH OF DEWSBURY.

WATER DEPARTMENT.

TENDERS are invited by the above CORPORATION for the SUPPLY of the FOLLOWING:—
Cast-Iron Pipes and Specials.
Valves and Hydrants.
Asbestos-Cement Pipes.
Water Meters.
Surface Boxes (Cast Iron, etc.).
Cast-Iron Leadless Collars.

In such quantities as may be required during the year ending 31st March, 1961.

Form of Tender, Schedule and General Conditions and any further information required can be obtained from the Water Engineer, 10 Church Street, Dewsbury.

Tenders, enclosed in a plain sealed envelope, endorsed "Tender for Water Meters," or any of the other specified materials, must be sent to me by Noon, THURSDAY, the 3rd March, 1960.

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
28th January, 1960.

NORTHFLEET URBAN DISTRICT COUNCIL.

ROADS AND SEWERS.

TENDERS are invited for the FOLLOWING WORKS:

Private Street Works.—The Construction of Streets, totalling some 8,200 sq. yd., of Hardcore and Macadam Carriageway, with Footpaths and Surface Water Drainage.

Sewers.—The Laying of some 2,500 lin. yd. of 6in. dia. Sewers, up to 18ft. in depth, together with some 630 lin. yd. of 4in. House Drain Connections.

Contract documents can be obtained from the Engineer and Surveyor at the address below, on payment of Two Guineas deposit, which will be returned on receipt of a bona-fide Tender, which is not subsequently withdrawn. The Tender, in a plain sealed envelope, endorsed "Roads and Sewers," must be delivered to me not later than 12 Noon on TUESDAY, 1st March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

DREWERY F. BUNKALL,
Clerk of the Council.

Town Hall,
Northfleet, Kent.
January, 1960.

STARTFORTH RURAL DISTRICT COUNCIL.

HUNDERTHWAITE WATER SUPPLY.

TENDERS are invited for PROVIDING and LAYING approx. 2,000 lin. yd. of 3in. dia. ASBESTOS-CEMENT PRESSURE PIPES, CONSTRUCTING a 5,000-gallon RESERVOIR, BUILDING of SPRING CHAMBERS, etc., at HUNDERTHWAITE, near Barnard Castle.

Drawings may be seen at the Council Offices or at the offices of the Council's Consulting Engineers, MESSRS. FAIRBANK AND SON, M.Inst., C.E., M.Inst.W.E., M.Cons.E., The Gables, 62a Bootham, York, and Specifications and Bills of Quantities obtained from the Engineers on deposit of £3 3s. (by cheque made payable to the Startforth Rural District Council), which will be refunded to contractors who submit bona-fide Tenders not subsequently withdrawn.

Tenders, in a plain envelope endorsed "Tender for Hunderthwaite Water Supply," must reach the undersigned not later than Noon on the 24th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. E. POOLEY,
Clerk of the Council.

Council Offices,
21 Galgate,
Barnard Castle.

JUNIOR SITE ENGINEER REQUIRED for large sewage disposal scheme in Gloucestershire. Must be fully experienced, including levelling, measuring for interim accounts, etc., and capable of working with minimum supervision. — Reply, giving full details of past experience and approx. salary requirement, to HOLBOROW AND SONS, LTD., Gloucester House, Tetbury.

GENERAL FOREMAN REQUIRED for sewage disposal scheme in Gloucestershire. A fully experienced man required to work on own initiative in bad ground conditions.—Reply, giving full details of past experience and approx. salary requirement, to HOLBOROW AND SONS, LTD., Gloucester House, Tetbury.

EXPERIENCED REPRESENTATIVES REQUIRED for the sale of precast concrete products ranging from piles, r.c. frames, exposed aggregate cladding slabs, etc., by leading firm of precast concrete manufacturers situated in Essex. Should have existing connections. Must be of good appearance and able to make contacts at the highest level. Company car provided. Bonus and superannuation scheme in operation. All replies treated in confidence. — Apply in writing, giving details of past and present position, with salary required, to Box V.1148, "The Contract Journal."

CIVIL ENGINEERING or ARCHITECTURAL ASSISTANT (not necessarily qualified) for sales appointment with London company having world-wide interests and manufacturing products used in building construction. Applicant should be aged 25-30, able to read drawings, and should have site experience. He would be required to visit civil engineers, architects and construction sites and to prepare specifications. Salary according to age and experience; pension scheme available. — Write, with full details, to Box V.1156, "The Contract Journal."

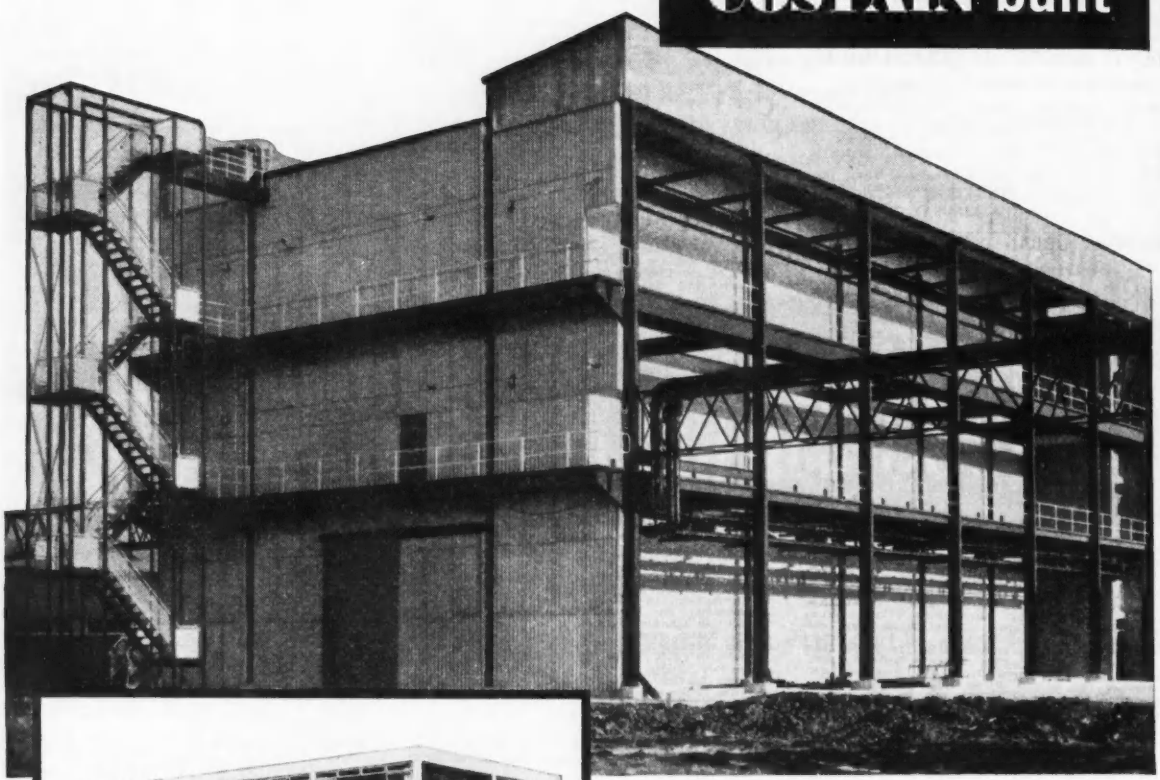
ROBERT M. DOUGLAS (CONTRACTORS), LTD., REQUIRE AGENTS, SUB-AGENTS, GENERAL FOREMEN, FOREMEN and GANGERS for work in general civil engineering and building works, in any part of the country.—Apply in writing, stating age, experience, qualifications, and salary required, to 395 George Road, Birmingham, 23.

SALES REPRESENTATIVE REQUIRED for East of Scotland contractors' plant manufacturers. Sales experience with light dumpers, concrete mixers, etc., and engineering background desirable. Must be prepared to travel in U.K. periodically.—Apply with full particulars, including age and salary required, in confidence, to the General Manager, Box V.1163, "The Contract Journal."

CIVIL ENGINEER REQUIRED by consulting engineers' London office engaged on large irrigation schemes abroad.—Candidates up to 30 years of age who are University Graduates and/or A.M.I.C.E., with experience in hydraulics and the design of reinforced concrete structures should apply within 14 days, stating experience, and salary required, to Box V.1162, "The Contract Journal."

This CIBA process plant is

COSTAIN built



Side elevation with pipe bridge; temporary end and escape staircase

Front elevation to the office block

EIGHT MONTHS FROM DESIGN TO COMPLETION!
The timing on this contract at Grimsby for CIBA Laboratories Ltd., the internationally-known manufacturers of pharmaceutical chemical products, demonstrates the wisdom of calling in Costain's at the very start. Their broadly based organisation with its many specialised branches, can foresee difficulties and overcome them with the minimum of delay.

Architects for the office block and consulting architects for other buildings:
J. DOUGLASS MATHEWS AND PARTNERS, Chartered Architects

It's never too soon to call in

Richard **COSTAIN** *Limited*

BUILDING & CIVIL ENGINEERING CONTRACTORS, LONDON

Home Branches: Bristol · Canterbury · Grays · Newcastle · Plymouth MIDDLE EAST · RHODESIA · NIGERIA · CANADA · WEST INDIES

THE
CONTRACT JOURNAL
INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

THE CONTRACT JOURNAL
incorporating
THE BRITISH CONSTRUCTIONAL ENGINEER
and
THE CONTRACTOR
Established 1879

No. 4,206 Vol. CLXXVI Feb. 4, 1960

Editor:
LAWRENCE McCARTHY

PRINCIPAL CONTENTS

PAGE

Work Starts on First Section of Welsh Road Scheme: Cardiff Firm's £1,333,912 Contract 580
Road Construction in Berkshire: Surveyor's Concern Over Future Traffic 580
N.F.B.T.E. Says Signs for Future Encouraging, but Warns on Land and Materials Shortage 581
Limpet Dam Used for Underwater Work at Sharpness Docks 582
Factory Constructed Over Existing Buildings 583
A Lawyer Considers: Liability to Children—Fluctuations in Holiday Credit Payments 585
In Parliament: Transport Minister's Share Sale Statement 586
Planning and Design of Hangars to Suit Aircraft Trends 587
Wimpey to Build New Tattersalls Stand in Ten Months 589
Mowlem's £5¼m. Durham Reservoir Contract 590
Late Construction News 590
L.M.B.A. Annual Meeting and Luncheon 591
Volumetric Calculations by Aerial Photography 593
Men and Movements 594
Berkshire Village Sewer Repaired While in Operation 595
Talking of Safety, by "Dragee" 596
Trade Section 597

CURRENT CONSTRUCTIONAL ACTIVITIES:
Projects 599
Contracts 602
Awards 609

Publishers

The Contract Journal Co., Ltd.,
32 Southwark Bridge Road, London, S.E.1.
Telephone: Waterloo 3411 (7 lines).
Telegrams: "Seejasir," Sedist, London.

Subscriptions

"The Contract Journal" can be supplied direct from the above offices. Subscriptions, payable in advance: Yearly, £5 4s. (post free); half-yearly, £2 12s. An order form appears on page 648.

Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

SLUM CLEARANCE: MAINTAINING THE MOMENTUM

FOR obvious reasons, large-scale slum clearance is a difficult and complicated operation, but throughout the past few years local authorities have made considerable headway. In fact, during the five-year period ending December 31 next it is estimated that more than 250,000 dwellings will have been demolished or closed, and 750,000 people rehoused in Great Britain.

By the end of 1960 some local authorities will have cleared all the unfit houses in their areas, others will still have a great deal to do, and a number will still have some work outstanding from their current programmes. To ensure that the momentum is maintained, the Minister of Housing and Local Government, Mr. Henry Brooke, now suggests that authorities should take stock of their individual progress and act in one of three ways.

In the Minister's view authorities with a continuing problem who expect to complete their current five-year programmes by the end of 1960 should review the position and submit further proposals to him, indicating how long they think it will take them to clear the unfit houses in their areas, and detailing programmes of action for one to five years as appropriate.

Mr. Brooke also suggests that authorities who are likely by the end of 1960 to have work still in hand from the current programme should aim to complete this as soon as possible. The position should be reviewed when they are within, say, 18 months of completing the current programme, and further proposals submitted.

Finally, local authorities who have cleared, or expect to have cleared, all the unfit houses in their areas before the end of 1960 are asked to make a final check to satisfy themselves that there are no more unfit houses requiring action, and to submit proposals for dealing with any if they are found.

It is to be hoped that action in accordance with Mr. Brooke's suggestions will indeed enable authorities to maintain their present rate of progress with the minimum interruption; unfortunately slum clearance will remain one of the country's major housing commitments for some years to come, and in those areas where the proportion of outworn houses is especially high, it will take a long time before the work can be completed. However, as the Minister says: "Provided that the present drive loses none of its momentum, there is every reason to believe that over a large part of the country the next few years will see the disappearance of all the slums."

Much More Needed

IN a Paper presented at the Royal Institution of Chartered Surveyors last week, Mr. C. T. Brunner called for a bigger roads programme. He said that the present one was only a fraction of what must be undertaken, and argued that Britain had the material resources to build roads at about three times the current rate, if sufficient priority was given to the task.

The need for a larger programme has long been established but Mr. Brunner's remarks are specially topical as the Government is understood to be considering the overall problem of roads, following the Minister of Transport's recent tour of Europe and the United States to see for himself how the various countries tackle their highway problems.

No official announcement has been made so far, but there can be no doubt that while the British road programme has been stepped-up considerably in recent years, much more will have to be done—and done quickly—if the nation's highways are to cope with the ever-increasing traffic.

WORK STARTS ON FIRST SECTION OF WELSH ROAD SCHEME

Cardiff Firm's £1,333,912 Contract

MR. ERNEST MARPLES, Minister of Transport, has announced that work is to start immediately on the reconstruction of the Heads of the Valleys Road in Wales. The existing A.465 road between Abergavenny and Hirwaun will be transformed into a new highway for a total distance of about 24 miles.

At the eastern end, the Heads of the Valleys Road will be linked to the Ross Spur Motorway, now under construction, by the modernisation of the existing road between Abergavenny and Ross. These works will provide a new, efficient and speedy route to and from the Midlands for the industries established or contemplated in the South Wales area.

The Minister has awarded the contract for the construction of the first seven-mile section of the new trunk road—between Abergavenny and Brynmawr—to John Morgan (Builders), Ltd., of Cardiff, whose tender was £1,333,912.

New Bridge

The new road, with a 33ft. carriageway, will leave the A.40 just south of Abergavenny and run in a north-westerly curve through the valley of the Usk to Gilwern. A new bridge, with a centre span of 140ft. and two side spans each of 40ft. will carry the road over the river Usk.

The main feature of the bridge will be two groups of six V-shaped supports and the design makes use of post-tensioned prestressed concrete construction. The sides of the bridge deck and the V-shaped supports will have a smooth finish; in contrast, the wing walls will be constructed with a darker aggregate and will be bush-hammered to give a rougher texture. The parapet rails will be of rectangular section steel tubing.

From the village of Gilwern, the new road swings south-westwards to Brynmawr. For the last 2½ miles to Brynmawr, it will climb nearly 700ft. at a gradient of 1-in-20 to replace the present road over Black Rock Hill, which has gradients in places of 1-in-8.

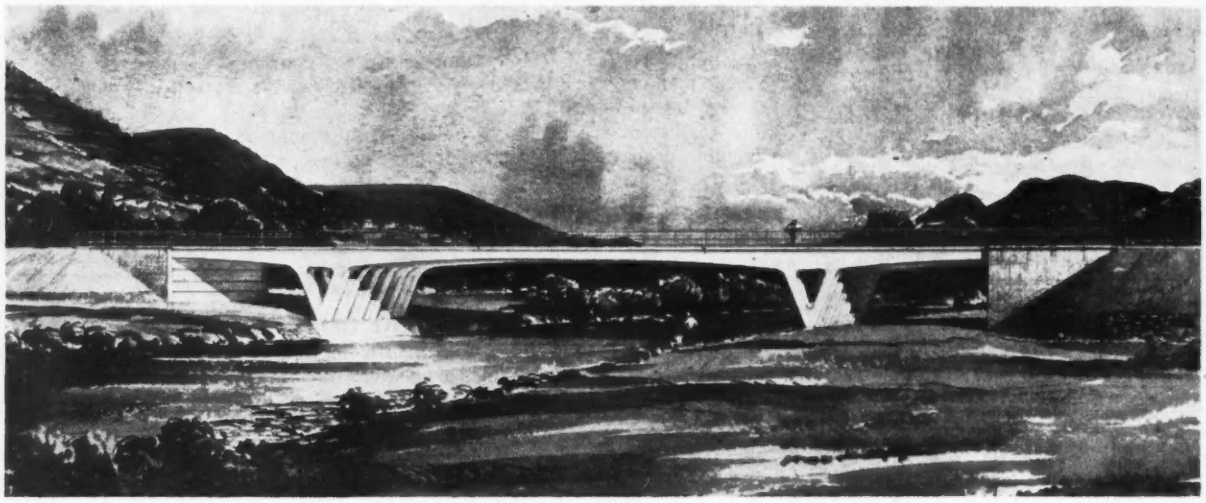
On this length, the new trunk road will be carried through Clydach Gorge on a shelf which will be cut into the hillside, involving the removal of more than 300,000 tons of rock. Within the gorge, the road will cross the river Clydach on a 400ft. long viaduct of nine reinforced concrete spans. The public footpath through the gorge will be preserved, with subways and a footbridge.

The first section of the Heads of the Valleys Road improvement ends at the eastern edge of Brynmawr in a large roundabout. It will be continued in a diversion north of the town at a later date.

Consultants

The scheme has been prepared by Rendel, Palmer and Tritton, the consulting engineers for the whole Heads of the Valleys Road project, who will also supervise the construction.

Plans for reconstructing the 17 miles from Hirwaun to Brynmawr are in course of preparation.



An artist's impression of the bridge over the river Usk

ROAD CONSTRUCTION IN BERKSHIRE

Surveyor's Concern Over Future Traffic

SEVERAL questions concerning the adequacy of the road construction programme in Berkshire are posed by the County Surveyor, Mr. K. P. Brow, in a review of his department's work during 1959.

He warns that the present rate of improvement of classified roads in Berkshire cannot be viewed with complacency, and asks: Will the new trunk roads attract traffic off other and feeder roads? Will they be adequate to carry the volume of traffic at the speed at which it wishes to travel? And with Berkshire becoming more rapidly populated and industrialised, will the county roads be adequate or will delays and frustration add to the cost of goods, passenger transport and road accidents?

Despite his concern for the future, Mr. Brow says that the good progress with the Maidenhead and Oxford (Western) By-passes and the Newbury Relief Road are encouraging signs that the new road programme is starting. The Maidenhead scheme got away to a flying start and excellent progress has generally been maintained. No difficulty in completing the works by the end of 1960 is expected.

He hopes that authority will soon be given for an aerial survey for the route of the London-South Wales Motorway so that the location can be worked out and the necessary detailed scheme prepared.

Commenting on the Newbury North-South Relief Road, the County Surveyor points out that this had been planned to provide a single three-lane carriageway, but owing to the remarkable increase in traffic this was now inadvisable and dual carriageways will be provided.

To maintain the existing Order line and provide dual carriageways would mean the demolition of considerably more property. So a new line, avoiding the built-up area of the town, had been investigated and recommended to the Ministry of Transport for adoption. This new line would avoid the intermingling of local and through traffic and would thus give the road the character of a by-pass by which it would be known.

The adoption of an amended scheme would mean a delay in putting construction work in hand, owing to the somewhat lengthy administrative procedure of republishing the draft Statutory Orders. The Ministry had asked that consideration be given to the construction of a fly-over junction in the vicinity of London Road. This is now being investigated.

Cracks in Roads

The long, hot and dry summer caused subsoil shrinkage on many Berkshire roads and there have never been so many roads showing cracks. On other roads the cracks remained open much later in the year than usual and this may result in considerable damage this winter through surface water entering the cracks and freezing.

WATES FORM NEW CONSTRUCTION DIVISION

Wates, Ltd., have announced the formation of a construction division of their subsidiary company, Modular Concrete Co., Ltd. Staffed by Wates personnel, the section has been formed "to widen the scope and practice of the company's work in specialist reinforced concrete design and construction." For the present it will operate from the head office address, 1258 London Road, London, S.W.16.

N.F.B.T.E. SAYS SIGNS FOR FUTURE ENCOURAGING

But Warns on Land and Materials Shortages

PROVIDED there is no undue interference with the capital investment programme as it affects construction, the industry could be fully occupied for many years to come, states the annual report of the National Federation of Building Trades Employers. There is undoubtedly a theoretical optimum amount of work that the industry can handle at any one time. Whether that optimum will be reached in 1960 cannot at the moment of writing be accurately forecast, but every step should be taken to ensure that an increase in the workload of the industry does not result in damaging shortages. In particular, those responsible for planning the output of materials should be prepared for a substantially increased demand in 1960 over 1959.

One commodity already in very short supply in many areas is land zoned for development. Unless remedial action is taken in the very near future this shortage will impair the full potential of the industry. A working party has been set up by the N.F.B.T.E. to consider this question.

The demand for housing seems likely to be maintained for some time. There is a growing feeling that the present rate of house-building is inadequate, and that considerably more houses are needed each year to meet the present shortage, to match population growth and to keep pace with obsolescence accelerated by rising living standards. Much the same influences determine the demand for other kinds of construction work.

The report, of which the following is a summary, was adopted at the annual general meeting held in London yesterday.

Materials Supplies and Prices

Although brick production has increased during the year, it has not risen to the same extent as demand and as a result brick stocks are now at their lowest level since the war. The N.F.B.T.E. recognises that the brickmakers have suffered in the same way as contractors from sudden changes in government policy, but the building industry is nevertheless entitled to expect that essential building materials shall be readily available in the necessary quantity as and when required to enable constructional work to be carried out speedily, efficiently and at a proper cost.

In the latter part of the year there was an appreciable increase in the delivery period of building steel, the greatest delays being in respect of reinforcing rods.

For the past two years building material prices taken as a whole have been relatively stable. This is mainly because small increases in the prices of bricks, tiles and cement have been offset by reductions in the prices of imported materials such as softwood and non-ferrous metals. This stability may not continue.

Industrial Relations

Relations between the N.F.B.T.E. and the building trades unions continued to be satisfactory. There have been a few unofficial strikes, but the building industry has not been so seriously affected by them as industries where there are larger concentrations of labour at the place of work. Particularly exasperating, however, have been the repeated troubles arising from the inability of the plumbers' and heating fitters' unions to resolve their long-standing differences. The trouble has been aggravated by the unfortunate practice of certain architects in nominating a subcontractor to carry out both heating and plumbing work.

Discussion at informal conferences between executives centred on incentives and sub-contracting for labour only. The operatives suggested that both sides should now recognise that the introduction of payments-by-results under the 1947 settlement has not been successful. If progress was now to be made, sub-contracting for labour only must first be prohibited and then steps should be taken to get proper incentives schemes worked on all sites.

NEW PRESIDENT

Mr. D. E. Woodbine Parish, F.I.O.B., the new president of the National Federation, was born in Kensington in 1911, and was educated at Sandroyd, Eton and Lausanne, Switzerland. He served a short general engineering student-apprenticeship in Manchester and subsequently undertook a period of whole-time technological education in building in the Department of Architecture, Building and Surveying at the Northern Polytechnic, London. He followed this by a three-year building and civil engineering indentured pupilship in London with Holiday and Greenwood, Ltd., being appointed as executive director at the age of 25 and resigning the position of chairman and managing director after a period of 28 years with that company upon his appointment as chairman of Bovis, Ltd., in the summer of 1959.

Mr. Woodbine Parish was President of the London Master Builders Association in 1952 and its Honorary Treasurer in 1954-56. He has been a member of the N.F.B.T.E. Council since 1947 and was elected a Vice-President in 1958.

The employers in reply emphasised the need for higher productivity and the importance of incentives schemes as a means of achieving it. Many schemes had been unsuccessful because operatives on the site demanded too much bonus in return for too little output. So long as output remained low, contractors who wished to do so must be free to employ genuine labour only sub-contractors. Work study and planning would play an important part in any future approach to incentives and the Employers' Federation was making efforts to educate managements on these lines.

The discussions have been adjourned on the understanding that the operatives will submit a list of the points which they would want to be covered in any new agreement on incentives, while the employers on their side would produce a statement of the principles on which proper incentives should be based. The N.F.B.T.E.'s Wages and Conditions and Incentives Committees have been working on a draft statement of principles.

Joint Contracts Tribunal

The revisions proposed to the R.I.B.A. Standard Form of Contract as presented to the Joint Contracts Tribunal early in the year were found to be generally acceptable to all parties except in one respect which N.F.B.T.E. representatives regard as of the utmost importance.

Before 1931 there was no provision in the R.I.B.A. Contract for remunerating the contractor for any loss or expense he might suffer through complying with the instructions of the architect, however unexpected those instructions might be. He was entitled only to payment for the extra or varied work to be carried out. This position was dealt with in the 1931 Form (and again in the present 1939 Form) by providing that, if compliance with architect's instructions involved loss or expense—which is something quite apart and additional to the expense of executing extra works—beyond that reasonably contemplated by the original scheme of work as described in the contract documents, then, unless the instructions were issued owing to some breach of contract by the contractor, the contractor was to be compensated.

The local authority representatives on the Tribunal have raised objection to the retention of this provision—the penultimate paragraph of Clause 1—in the revised R.I.B.A. Contract. They maintain that the grounds upon which the contractor can claim a payment over and above the contract sum should be specific and that no claim on any other grounds should be admissible under the contract. N.F.B.T.E. representatives have pointed out that this proposition involves an impossible task, namely, to specify in advance in the form of contract all those instructions of the architect which might, in the particular circumstances in which they were given, involve the contractor in loss or expense. The contractor must have a contractual right to reimbursement if he incurs, due to compliance with the architect's instruction, loss or expense beyond that reasonably contemplated by the original scheme of work as described in the contract documents. The local authority representatives are considering the matter.

Plant Hire Conditions

Discussions have taken place with representatives of the Contractors Plant Association regarding the General Conditions for the Hiring of Plant issued by that Association. These Conditions were negotiated shortly after the war with civil engineering works mainly in mind. Further discussions are to take place with a view to preparing a shorter version of the form of hire with special reference to conditions in the building industry.

Joint Consultative Committee

The Joint Consultative Committee of Architects, Quantity Surveyors and Builders is now considering in what direction its future activities can be most usefully directed. It has been suggested that a Code of Job Procedure would form a natural sequel to "Plan Before you Build" and to the Code of Procedure for Selective Tendering. The present Cost Plus and Fixed Fee Forms of Contract are being examined and the preparation of draft Standard Forms of Estimate and Nomination has now reached an advanced stage.

Education and Training

A special committee of the N.F.B.T.E. appointed to consider ways and means of improving the rate of recruitment and indenturing of apprentices has made several recommendations which have been approved in principle by the Council. The committee considered that the full-time pre-apprenticeship courses already in operation were proving of great value and

recommended that more such courses be provided. As it was felt that many employers are not aware of the provision in the scheme for remission of part of the apprenticeship period in the case of boys who have had approved pre-apprenticeship training, it was recommended that the relevant section of the National Apprenticeship Scheme should be re-worded to make the position clearer. Certain of the recommendations, the adoption of which would involve further alterations of the scheme, will be discussed with the operatives. The British Employers' Confederation has been asked to consider the possibility of employers being allowed tax relief in respect of the cost of training under a recognised scheme in addition to the normal tax relief which employers can claim for wages paid to apprentices and technical college fees.

Foremanship Training

Although the number of students taking the City and Guilds of London Institute examination is still small, there has been an increase in the number of technical colleges organising courses leading to it. It is expected that entries for the examination will increase from 1961 onwards. One of the problems confronting colleges running courses continues to be the shortage of lecturers with experience on building sites. At the invitation of the National Advisory Committee for the Training of General Foremen, the London Regional Advisory Council for Technological Education is to sponsor a weekend course for lecturers in general foremanship studies.

Management Training

The Scheme of Training for Management recommended by the N.F.B.T.E. has now been adopted by all Regional Federations which had not previously adopted their own training schemes. The N.F.B.T.E. has published during the year a Deed of Agreement suitable for use when a young man is articled for training under one of the methods recommended in the Federation's scheme of training.

Accident Prevention

The industry must still face the fact that the upward trend of accidents since 1952 has continued. Since 1952 the total number of building accidents has increased by as much as 18 per cent. Regional Federations are being asked to intensify their efforts during 1960 to impress upon every firm the importance of taking action to reduce the number of its accidents, using as a basis the recommendations made in the N.F.B.T.E.'s new booklet, "Organise for Safety."

Research and Technical Information

The N.F.B.T.E. has been re-examining the question of how the results of research investigations can most effectively be brought to the notice of members. It has been decided that the Federation should extend its present work in this field. As a first step, it is proposed to appoint a technical officer at N.F.B.T.E. headquarters, whose duties will include the collation, in the most appropriate forms of technical information for distribution to members. At a later stage consideration will be given to providing some form of technical advice service for members.

Modular Co-ordination

Much attention has been given in recent years to the establishment of a standard "module" to which the sizes of all building dimensions and components should be related. A B.S.I. drafting committee took the view that, if technically feasible, a module size should be chosen that was in alignment with that of other nations operating or considering a system of modular co-ordination. Following a lead given by the International Standards Organisation, they recommended the adoption in the United Kingdom of a 4in. module. When they considered this draft British Standard, the N.F.B.T.E.'s Building Research and Technical Information Committee were advised that there were important divergencies of opinion as to the desirability of adopting a module of 4in. and that the Building Research Station, for instance, advocated the adoption of a module—say 3in.—which was more closely related to the size of such a traditional building component as the normal standard brick. In these circumstances, the Committee felt that it would be unwise for the N.F.B.T.E. to approve the draft British Standard in its present form and recommended that further studies should be made before any final decision was reached on the matter.

Liaison with B.R.S.

During the past year special attention has been given to a variety of matters, e.g., shrinkage cracking, dry construction for partition walling, single-stack plumbing for two-storey houses, the costs of cross-wall construction and the running costs of different types of central heating. Other subjects considered by the N.F.B.T.E.'s Liaison Committee with the Building Research Station include granolithic flooring, failure of galvanised tanks and the series of full-scale trials of selected results of research which members of the N.F.B.T.E. carry out in co-operation with the Station.

Another subject which has been discussed with the Research Station is the design and construction of small underground drains and sewers. The Research Station is considering the publication of a further Digest on the subject.

By-laws

The Ministry of Housing and Local Government has been informed that, in general, by-laws based on the 1952/53 model worked quite well, although difficulties arose from time to time due to the varying interpretations placed on them by different local authority surveyors. With reference to a suggestion that the present system of local by-laws should be replaced by a national code of building regulations, the N.F.B.T.E. considered that the proposal merited further consideration, especially if central control overcame such differences in by-laws interpretation as now occur from time to time.

The Minister of Housing and Local Government has approved with modifications the development plan for the East Riding of Yorkshire.

LIMPET DAM USED FOR UNDERWATER WORK AT SHARPNESS DOCKS

A VERTICAL limpet dam and tunnel has been erected across the lock at the entrance to Sharpness Docks and the Gloucester and Sharpness Canal from the River Severn Estuary to enable engineers to reface the lock sills before the installation of new lock gates.

The dam and tunnel technique is enabling this work to be done without disrupting waterways traffic. The photographs below illustrate:

(Left) A view from the bottom of the vertical section of the limpet dam, showing one of the lock's hollow quoins in the centre. The galvanised iron air main for the compressed air tools, the pump discharge pipe, the electric and telephone wires, and the power cable to the submersible electric pump can be seen on the left of the photograph.

(Right) A view along the tunnel showing the sill face which has been dressed to a 75ft. radius. Facility pieces have been cut out of the sill and are awaiting filling with granite aggregate concrete. Also visible are: the submersible electric pump; the weight stacked on sill to counteract water upthrust; and the large ventilation air main running along the top of the weight providing fresh air and driving foul and dusty air up the vertical section.

The work is being carried out by Charles Hill and Sons, Ltd., Bristol, who are also supplying the lock gates.

FACTORY CONSTRUCTED OVER EXISTING BUILDINGS

Works' Productivity Increased During Operations

CREATING an entirely new £1½m. factory on the same site as, and in places over, the existing works and increasing productivity at the same time are two of the planning objects achieved by Howard Crane and Partners, architects and engineers, in the reconstruction of the Albert Street works, Bilston, of Joseph Sankey and Sons, Ltd., one of the G.K.N. group of companies.

The original Albert Street works stood on sloping ground and had been constructed piecemeal over a century. Shop floors were on different levels; departments were split by a road; lack of connecting conveyors or bridges necessitated considerable shop labour and internal transport for material handling.

The rebuilding scheme envisaged all assembly shops on one level; a new press shop with a suspended floor (utilising the slope of the ground) with the basement as a tool and raw materials store, and automatic conveyors linking Albert Street works with the Bath Street works.

Concurrently, the scope of Sankeys' work was broadened and increased, additional general purpose equipment and more flexible plant layout permitting a wide range of manufactures from durable consumer goods to components and bodywork for the aircraft and automobile industries.

Consideration was given to rebuilding at a completely new location but the company were established on their present site 106 years ago and in that time had built up close associations with the town and population of Bilston.

It was felt that it would be wrong to break this tradition although the cost of building was greater than it might have been elsewhere. A large force of skilled labour had been accumulated over the years and it would be extremely difficult to replace it in any area where sufficient space could be obtained.

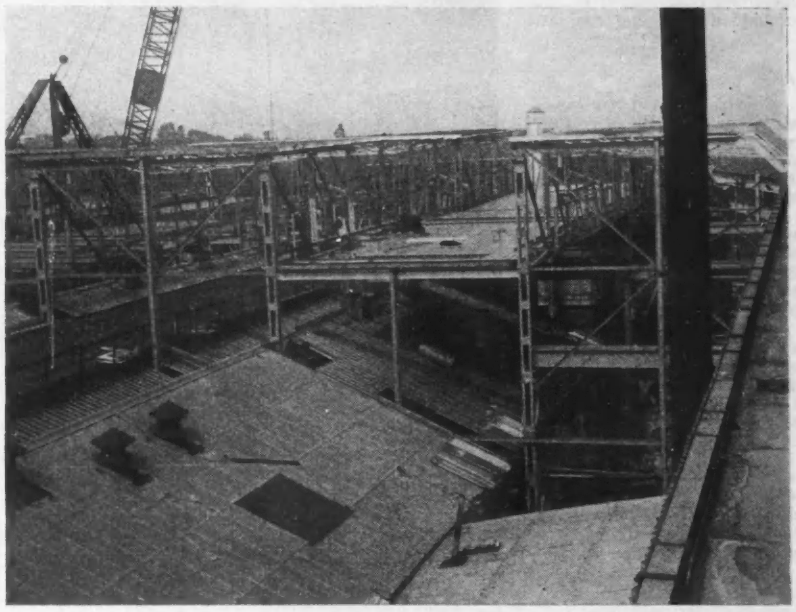
The order in which rebuilding could be carried out was determined largely by the new facilities which were being provided. Use was made of existing heating capacity from the central boilerhouse serving Bankfield works and Albert Street. The old boilerhouse was then demolished, pickling and plating shops rehoused and a neutralising tank built before construction began on the 64,000 sq. ft. press shop.

Work on the new press shop enabled major plant moves to take place. The space thus vacated was used as temporary housing for the assembly departments while further demolition and construction were undertaken.

During the demolition and rebuilding period, the company operated with an average of 25 per cent. less floor space than was previously available, and for the Albert Street rebuilding it was necessary to erect the new structures before the old ones could be demolished and to continue working throughout the building period.

This was achieved by piling approximately 80,000 sq. ft. of production departments, while Sankeys' own labour, who were responsible for erecting the structural steelwork, lowered the stanchions of the new building through holes made in the roofs of the old shops, and fixed the stanchions to the pile caps. The new building was clad and finished on top of the old one which was then demolished underneath the new at a later date.

Major plant moves were planned to take place during the night, at weekends or during holidays. Production runs were lengthened to reduce down-time and stocks of finished products increased and stored in temporary rented warehouses to simplify the whole problem of production and planning during the course of the demolition and rebuilding.



Early stages of construction

Preliminary Work

Because of the very poor nature of the ground, largely made-up and involving mine workings, considerable piling was necessary. The prepiling survey revealed that the ground on which the new shops would stand was heavily contaminated with

An impression showing (left) the press shop containing over 100 presses on a suspended floor; the assembly shops (centre) and offices (right)

alkalis and acids drained from the factory over the years.

Contamination varied in the surrounding sub-soil, and continuous adjustment of the concrete mix was necessary during piling operations to suit the acid or alkali conditions. An additional complication was the absence of drawings detailing the exact locations of services installed over a period of 100 years.

The number of piles driven and bored was 1,037, maximum depth being 35ft., average depth 25ft. One bore was sunk 70ft. without touching a solid foundation and was abandoned. Each pile was designed for 60 tons loading.

Nearly 100,000 cu. yd. of soil, etc., was excavated or blasted for the new shops, including over 10,000 cu. yd. of hidden brick and concrete.

Construction

Press Shop

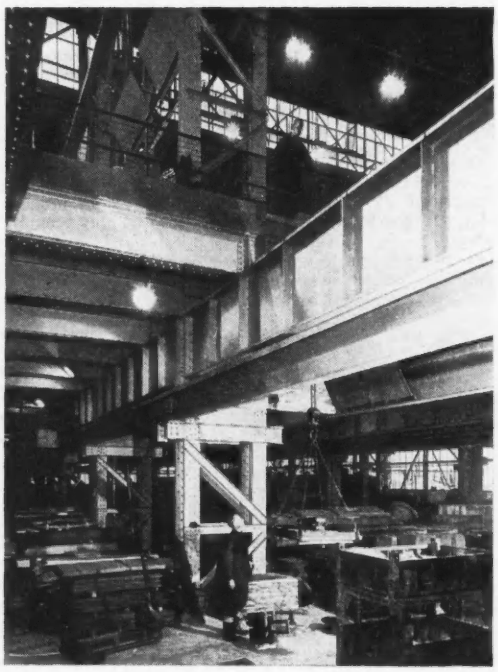
Construction of the press shop began in August, 1957, and the first presses were operating there by Easter, 1958. As mentioned, advantage was taken of the slope—with some additional excavation—to construct the press shop with a suspended floor both to speed production and simplify handling and storage problems.

Size of the shop is 425ft. x 150ft. Height to underside of truss is 40ft. with the depth of truss and glazing 12ft. The basement area is 63,750 sq. ft., has a depth of 20ft. and contains a tools store (18,000 sq. ft.), materials store (42,520 sq. ft.), laboratory (450 sq. ft.), and tool repair section (2,780 sq. ft.). Adjoining is a 2,660 sq. ft. house for a Lindemann hydraulic scrap baler.

The floor stanchions are based on a 25ft. sq. grid. The main spine beams are 54in. deep and carry all other beams, the floor being designed to carry one ton per sq. ft. superimposed load. Removable hardwood panels on the steelwork over the basement allow for relocation of presses without the necessity of excavating and constructing new individual press pits and foundations.

The press shop is equipped with two 30-ton cranes at high level, with five-ton cranes in the basement for materials handling. A 250ft. long conveyor with automatic facilities for shunting pallet loads of materials links the press shop with the annealing furnaces across the road. Dado walls are of brickwork, with side-wall glazing above and Monitor Light roof construction. Walkways running inside the press shop roof for maintenance purposes link up with the adjacent assembly shops.

A four-storey office block for production control and production engineering personnel, housing workers' cloakrooms and lavatories, is built adjacent to the press shop. Total area is 9,000 sq. ft.



Plates being hoisted from materials store into press shop

Assembly Shops and Warehouse

On completion of the press shop, reconstruction began on four assembly shops and the warehouse. These covered an area of 102,000 sq. ft. and with the exception of two shops and the warehouse (24,640 sq. ft.), the new shops were erected over the old ones as described. Height of each shop to underside of truss is 32ft. and the depth of truss and glazing 12ft. The shops have brick dado walls, side-wall glazing and Monitor Light roofs.

Access was limited and difficulty was experienced in moving building plant among the production machinery. Concrete was pumped right across the press shop into the assembly buildings, the pipes being disconnected at certain times to allow movement of Sankeys' materials.

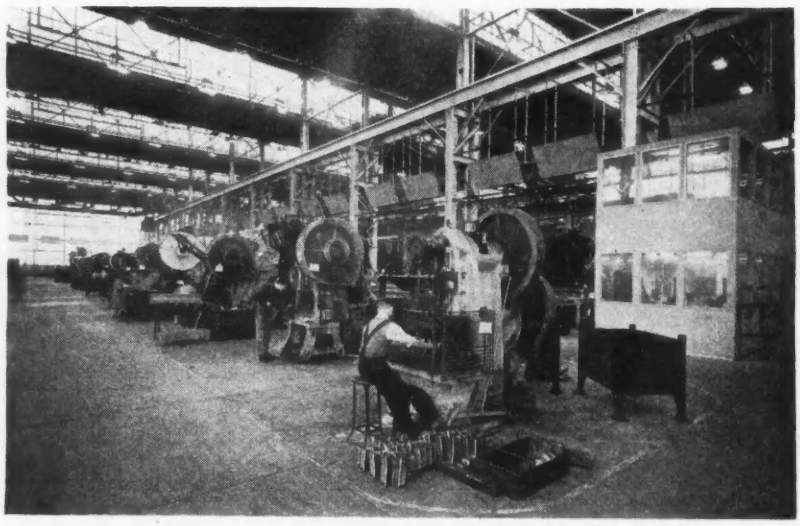
The shops were reconstructed a section at a time. Machinery was removed to the adjoining section, concrete flooring and brickwork (where necessary) was laid, then the machinery was replaced and the process repeated. The concrete flooring was often in use 48 hours later.

The rebuilding scheme was completed in December, 1959, at a total cost of £1½m. During the project no orders were turned away by Sankeys and output increased by 12½ per cent.

Consultants and Contractors

The architects and engineers were Howard Crane and Partners, and the main contractor, Sir Alfred McAlpine and Son, Ltd.

The sub-contractors were: Wood Panel Floors, Ashworth Kirk (Woodwork), Ltd.; steel roll shutters, Chatwood-Milner, Ltd. (now Hall Engineering); switchgear, Crompton Parkinson, Ltd.; heating, The Freeman Heating Co., Ltd.; staircase balustrades, Clark, Hunt and Co., Ltd.; piling, John Gill Contractors, Ltd.; constructional engineers, John Lysaght's Bristol Works, Ltd.; electrical, Lee Beesley and Co., Ltd.; roofing, The Ruberoid Co., Ltd.; sanitary fittings, Stitsons Sanitary Fittings, Ltd.; patent glazing, Wottons (Croydon), Ltd.; Linotile and Semastic flooring, Marshall Davis and Co., Ltd.; steel handrails, Steelway, Ltd.; structural steelwork, British Steel Construction (Wednesbury), Ltd.; partitioning and lockers, Sankey-Sheldon, Ltd.; telephone equipment, Telephone Rentals, Ltd.; site investigation work, Pre-Piling Surveys, Ltd.; storage racking, Unistrut Division of Sankey-Sheldon, Ltd.; painting, Baxter Brothers (1920), Ltd.; plumbing, Oswald Coupe, Ltd.; granolithic paving, Prodorite, Ltd.; plasterers, S. T. Lloyd and Son.



Part of the light press section at the rebuilt Albert Street works

BALLAST INDUSTRY'S WAGES AGREEMENT

By agreement of the National Joint Council for the Ballast and Sand industry, the "C" Class Licence Drivers' minimum wage rates sub-agreement has been amended.

The rates of payment to "C" Class Licence drivers are, as from the beginning of the first full pay period falling on or after January 1, 1960, as follows: Drivers of vehicles under 12 tons gross laden weight—4s. 1¼d. per hour (class 1) and 4s. 0¼d. per hour (class 2); drivers of vehicles over 12 tons gross laden weight—4s. 2¼d. per hour (class 1) and 4s. 1¼d. per hour (class 2).

Employers already operating a higher basic wage in accordance with Clause 7(7) of the Wages Agreement may be exempted from such portion of the present increase is as already in operation.

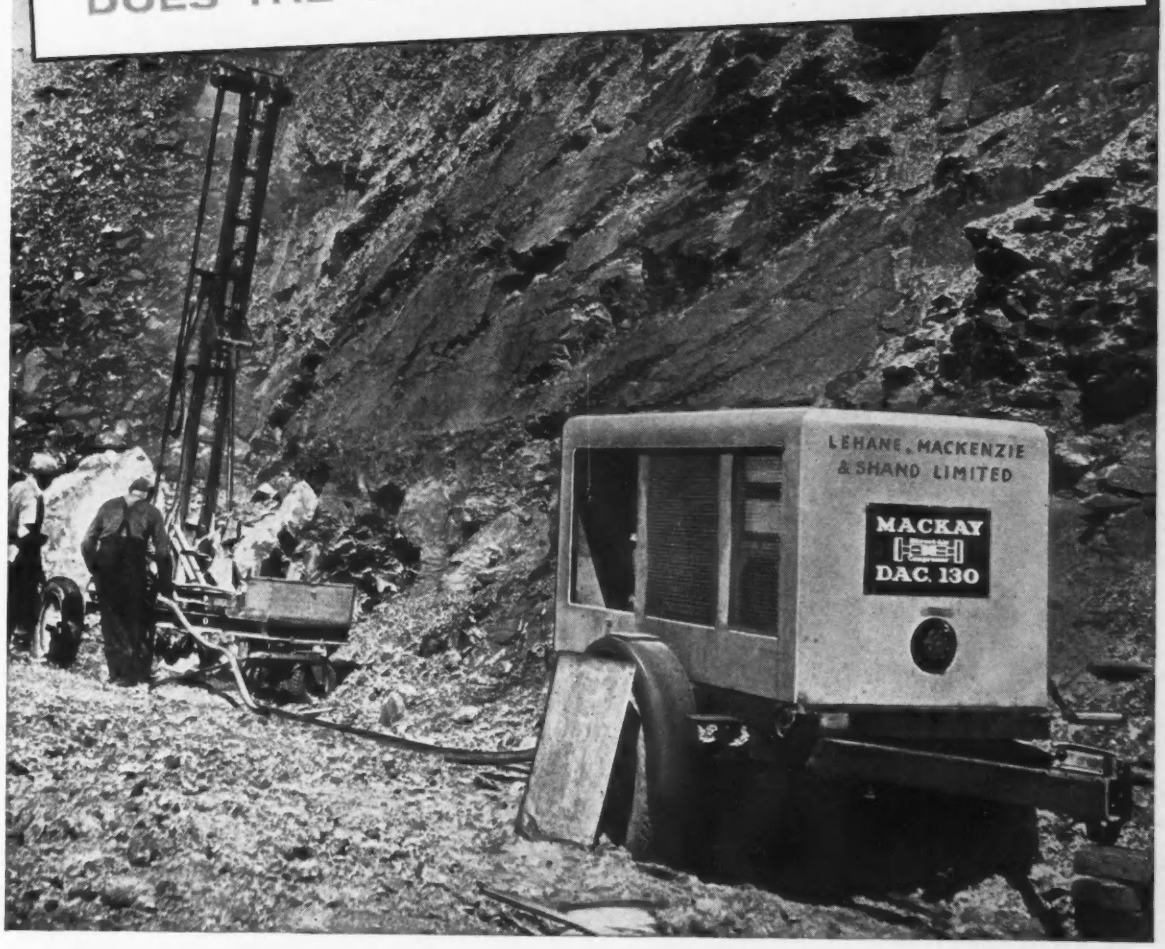
Further details can be obtained on application to the Employers' Secretary, National Joint Council for the Ballast and Sand Industry, 48 Park Street, London, W.1 (telephone: Grosvenor 8967).

MORE COMMISSIONS FOR PRIVATE ARCHITECTS

New work commissioned of private architects in the third quarter of 1959 increased by more than half as much again over the level in the corresponding quarter of 1958, and rose slightly above the level in the second quarter of 1959. This increase over the second quarter came largely in private housing and miscellaneous buildings for public authorities.

This information has been derived from a quarterly survey of a sample of all private architectural practices run by members of the R.I.B.A., details of which are given in the January issue of the *R.I.B.A. Journal*.

LEHANE, MACKENZIE & SHAND LIMITED
PROVE THAT THIS 2-TOOL COMPRESSOR DOES THE WORK OF 3/4-TOOL MACHINE



1ft. every 72 seconds through Whinstone with Mark II Halco-Stenuick 4″ rock drill

No other compressor at this *rating or price can match the performance of a DAC.130 operating Mark II Halco-Stenuick rock drills.

** Continuous output to BSS.726/57 132 c.f.m. F.A.D.*

MACKAY of Feltham

MACKAY INDUSTRIAL EQUIPMENT LIMITED, CENTRAL WAY, FELTHAM, MIDDLESEX. (FELTHAM 3435)
DAC 17

Why the DINKUM is the best

NO OTHER EXCAVATOR HAS ALL THESE FEATURES . . .

★ **UNEQUALLED WEIGHT DISTRIBUTION**—Machine snugs up to power unit, gives more stability, bigger output and prevents bogging down or overturning.

★ **THE ONLY MACHINE IN THE WORLD**—with swivel ends to all rams, which relieves the stress on ram pistons and cells, making for longer life and better reliability in hydraulics.

★ **FASTER SETTING-UP AND BETTER STABILITY**—Independent Telescopic Hydraulic Stabilizers instantly level up the machine well clear of the trench and prevent sloping walls, also doing away with necessity of sleepers, etc., for levelling up on uneven ground.

★ **BETTER VISIBILITY**—The operator sits centrally behind the machine and has unobstructed all-round visibility.

★ **GREATER OUTPUT**—because two or more rams can be operated at the same time.

★ **BETTER FOR SQUARE HOLES**—because of the patented all-powerful grab which digs to 16ft.

★ **BETTER SLEWING**—Improved fast-controlled slewing with progressive controlled dumping.

★ **LESS VIBRATION**—Centrally placed rams prevent vibration and do not obstruct visibility.

★ **LOWER TEMPERATURES**—because hydraulic fluid is fan cooled.

★ **LESS PUMP WEAR**—because we use a large capacity slow-running p.t.o. drive pump with universal joints.

★ **HIGHER TRANSPORT SPEEDS**—between sites because it is well balanced and compact.

★ **LESS SURPLUS WEIGHT**—because we have cut out unnecessary sheet-metal cowling thus preventing trapping of stones and soil.

★ **MORE OPERATOR COMFORT**—Means more output. A roomy cab affords easy access and allows perfectly controlled ventilation.

★ **LOWER OVERALL HEIGHT**—in transport position means better accessibility to sites and safety on the road.

★ **MORE HOSE PROTECTION**—Steel tubes replace rubber hoses wherever possible and all hose strain is removed by unique rotary seal and rotary hose unions.

★ **LOWER SPARES COST**—Compare our spares prices and remember, average length of hydraulic hose is only 20 in.

★ **MORE STRENGTH**—because the Digger and Loader are linked together on a universal chassis.

★ **SOLID STEEL AXLE**—No Dinkum Axle Beam has ever bent.

★ **MORE UNIVERSAL**—because it has the widest range of attachments.

and the POWER SHOVEL has the largest output of any comparable machine yet produced

WHITLOCK

DIGGER in the world
BROS LIMITED · GREAT YELDHAM · ESSEX
Telephone: Gt.Yeldham 305 (8 lines)

STERLING SAFWAY

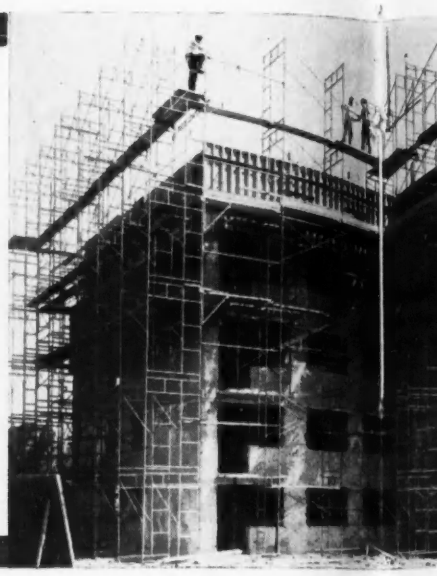
FASTER

HOIST TOWER

Illustration on left is of a tower for a centrally slung hoist.

Contract by Reema Construction Ltd., Salisbury, for 14 Blocks of Multi-storey Dwellings for the Leeds Corporation. Architect: The late R. A. H. Livett, Esq., O.B.E., A.R.I.B.A.

Illustration below shows the full access that can be given at any level to suit scaffold.



Photograph by permission of J. Cave, Esq., Borough Engineer and Surveyor, Hendon Borough Messrs. G. Wimpey & Co. Ltd.

The first fabricated Hoist Tower produced in this country. It is especially designed to give the following advantages:-

1) Quickest erection — 50 ft. in 2 hours complete.
2) It is designed for unskilled labour.
3) Greater Stability and Strength.
4) Only 5 component parts — No loose fittings.
5) It is the COMPLETE answer and includes self-locating boards — Wire mesh panels — manually operated gates at base — safety gates at working lift — will suit any normal type of hoist.

USE SAFW

for

Perfect Working Conditions

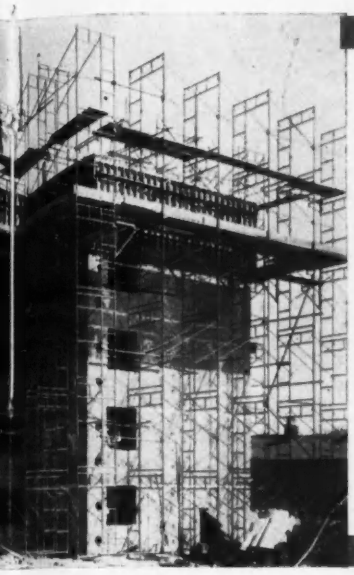
STERLING

LONDON
Iddesleigh House,

BEDFORD
Sterling Works,

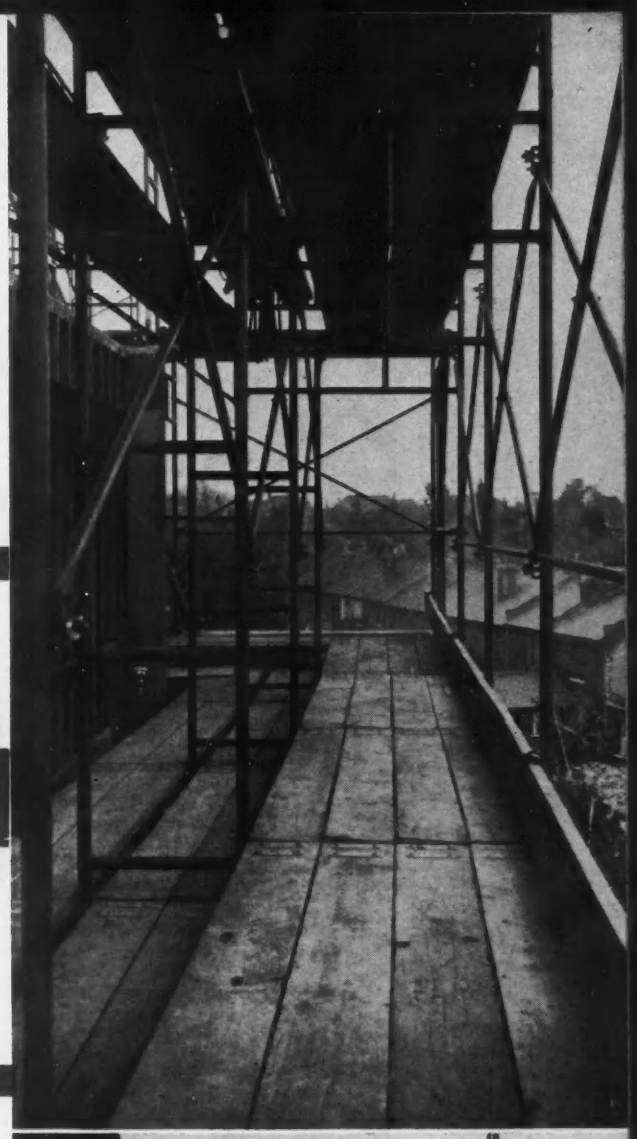
EDINBURGH
23 Rutland Square,

AIDS TO BUILDING



FULL PURPOSE 8′ 9″ UNIT FRAME

The illustrations on the right show the ease of handling storey height frames and the perfect working conditions given to the tradesmen, making increased productivity possible. No other scaffold gives such ideal working conditions together with increased stability, safety, speed of erection and economy of purchase.



v., Esq., Bsc., M.I.C.E., F.R.I.C.S.,
n Borough Council. Main Contractors:

Independent contractors' reports are now proving the advantages claimed for this new Safway access equipment.

1) Ease of handling and speed of erection.
2) Elimination of losses of tube and fittings.
3) The increase of tradesmens' productivity due to perfect working conditions.
4) The general overall resultant economy.

AFWAY

over 50% saving in labour

– SAFWAY

GLASGOW
28 Renfield Lane,

JARROW
Sterling Factory,

BRISTOL
175 White Ladies Road,

NEW CHOICE OF POWER FOR VICKERS VIGOR

World-famous Cummins Diesel as alternative to Rolls-Royce engine

Here's important news for everybody concerned with earthmoving. Now, you can choose the Vickers Vigor tractor with a Cummins Turbo-diesel engine as an alternative to the Rolls-Royce power unit.

Cummins engines are widely used all over the world and are backed by unrivalled service provided by Distributors at 190 centres in 110 countries. Its basic parts are interchangeable with those of all British and American-built Cummins Engines in the same horsepower range designed specifically for Construction Equipment.

Direct drive or torque convertor transmissions are available either with the Cummins or the Rolls-Royce engine.

The choice of Cummins engine is another powerful reason for choosing the Vickers Vigor—the fastest most efficient crawler tractor in the world.

VICKERS VIGOR

VICKERS LEAD IN FASTER EARTHMOVING

VICKERS-ARMSTRONGS (TRACTORS) LIMITED · SCOTSWOOD WORKS · NEWCASTLE UPON TYNE 5

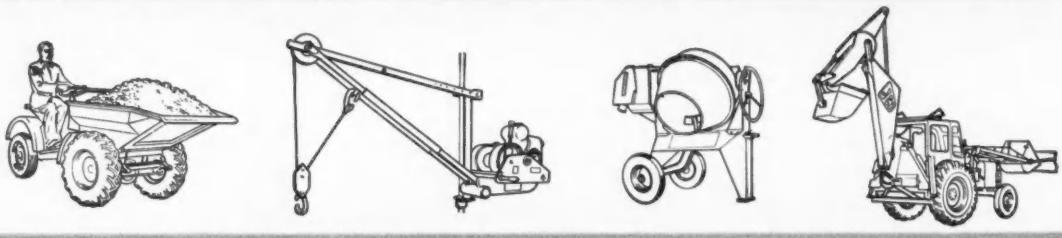
Sole distributors of Vickers Tractors and Equipment in the United Kingdom & Eire

JACK OLDING & COMPANY LIMITED · HATFIELD · HERTS.

SCOTLAND: JACK OLDING & COMPANY (SCOTLAND) LIMITED · COUPAR ANGUS · PERTHSHIRE

Vickers Vigor Tractor with 210 H.P. Cummins N.T.6 B1 diesel engine.

Youngman
PLANT HIRE



PROMPT
RELIABLE
EFFICIENT

MACaulay 2233

W. C. YOUNGMAN LIMITED, WANDSWORTH WORKS, Wandsworth Road, London S.W.8

A LAWYER CONSIDERS . . .

Liability to Children — Fluctuations in Holiday Credit Payments

THE case of *Aldrich v Henry Boyer, Ltd.*, reported in *The Times* for January 16, 1960, was referred to briefly in an article in *The Contract Journal* for January 22, 1959. The case has now been heard by the Court of Appeal, where the trial judge's decision against the contractor has been reversed.

The facts were that a little girl of six fell through a glass skylight and was seriously injured on a building being demolished by the contractors. When the accident occurred the contractors were in possession of the premises for demolition purposes and the buildings were, of course, empty. Despite all efforts made to keep the local children away they did play on the premises. It was found, however, that the workmen chased them away but despite this they got hold of tools and burnt them, broke open stores and pulled down bricks from stacks. The only one who could keep order was the foreman, who had a stick and used it; the police seemed powerless for if they came along they were apparently met by the children with rude songs. On these facts the trial judge had decided that the girl was a trespasser. Indeed, there seems nothing in the facts which would point to any other possible finding; nothing at all seems to indicate that the contractors or their servants gave any permission or licence to the children to enter the site. The girl herself admitted knowing that it was "naughty" to go on the site. Nevertheless, the trial judge, Cassells, J., found in the girl's favour and awarded large damages despite the clear law that the only duty an occupier of land or buildings owes to a trespasser is to refrain from wilful acts involving harm to the trespasser; otherwise the trespasser must take the land or buildings as he finds them and at his own risk. How, then, did Cassells, J., leaving aside a natural sympathy for a badly injured child, come to the conclusion that in the circumstances the contractors owed a duty to the child which they had not discharged.

The answer really comes from a line of cases involving mischievous children which has sometimes seemed to put them in a separate category in this important branch of the law. It has been felt that the special nature of children, their tendency to get into mischief and explore even where they know they should not explore, was something so well known that occupiers of land must bear this in mind. Thus, what might be a clear trespass by an adult would not be so in a child. This was felt to be especially true where the occupier had something on his land which was especially alluring to children—a roundabout, a swing, an old engine and, of course, many of the pieces of plant and machinery used by contractors. Thus there appeared to be a duty to take special precautions to keep children out, particularly from places where there were alluring objects—and if those precautions were not taken then there arose a liability if a child entered those places and suffered injury. If this special position of children were correct it would seem logically to entail for contractors that they must protect the sites they occupy from naughty children by building high walls or employing watchmen at all hours to keep them out. Luckily this case, in which the Court of Appeal unanimously reversed the trial judge, shows that no such onerous obligation rests upon the contractor who is in occupation of land. The child in this case was clearly a trespasser and there was no permission, express or implied, to her to enter the site; in the words of Lord Dunedin in an earlier case: "Where a proprietor protests and goes on protesting, turning away people when he meets them . . . and giving no countenance in anything that he does to their presence there, then I think no Court has a right to say that permission must be implied."

It is still, however, necessary to stress two points. Firstly, that what may be obvious to an adult as private land or buildings, so that to enter without permission is to trespass, may not be so obvious to children; contractors in occupation must therefore make it obvious, to both adults and children, that to enter without permission is to trespass; a fence and appropriately worded notices are the most obvious methods, but it is probably also wise to tell foremen and senior operatives to ask any unauthorised person to leave the site immediately—such action will help to prevent anyone claiming they were there by licence of the contractor. Secondly, this case concerned the duty owed by occupiers of land; it must be remembered that there is also the duty to take care not to harm people, including, of course, children, who may reasonably be supposed to be affected by our actions; so that where a contractor is not in occupation, for example, when doing work on premises in use by the owner, they are still under this duty to take care and the fact that the person injured by their failure to take care is a trespasser vis-à-vis the owner will not necessarily excuse that failure.

Fluctuations in Holiday Credit Payments

IT appears that several employers, including some local authorities, are taking the view that the case of *Henry Boot and Sons, Ltd. v L.C.C.* (discussed in full in an article in *The Contract Journal* for December 10, 1959), in which the House of Lords held that holiday credits were not within the meaning of the expression "rates of wages," governs the interpretation of the R.I.B.A. contract's fluctuation clause and are refusing to reimburse fluctuations in these credits. While no doubt the advent of firm-price contracting has made this question less important than it might have been, there must still be many contracts let on a fluctuating basis which are being settled so that, if persisted in, this view could result in quite serious losses. It is therefore worth while to consider whether any real resistance to this view can be made.

Firstly, one must deal with contracts in which the final certificate has been issued and honoured and payments for the holiday credit fluctuations have been included therein. If a final certificate was issued under R.I.B.A. conditions which did not include the 1957 revisions (which were designed to make the final certificate, with certain exceptions, immune from review by an arbitrator) then it would appear that the arbitrator could be asked to "review and revise" that certificate on the ground that the fluctuations in holiday credits were wrongly paid thereunder; see *Otterway and Try, Ltd., v Windsor R.D.C.* [(1954) 3 All E.R. 721], in which case Devlin, J., held that the arbitration clause in the pre-1957 edition was about as wide as it could be in giving power to the arbitrator to review and revise the final certificate. It might be contended against this view that the money was paid under a mistake, namely, that the employer and architect believed that the contract gave a right to the contractor to holiday credit fluctuations; that this was a mistake of law since the interpretation of a contract is undoubtedly a question of law; and that, since it is clear law that money paid under a mistake of law is irrecoverable, the employer has no right to recover the holiday credit fluctuations paid. There are two answers to this: until the issue is decided we do not know whether or not this money was paid under a mistake of law; and the general proposition that money paid under a mistake of law is irrecoverable must be read subject to the contract under which the parties themselves permitted a complete review of the final certificate and payments thereunder. Clearly, therefore, the whole subject of claims for recovery of holiday credit fluctuations paid under the terms of a pre-1957 R.I.B.A. contract in which the final certificate has been issued, bristles with arguments interesting enough to the lawyer but very expensive to have ventilated in court. In view of the difficulties involved in this litigation, quite apart from the practical difficulties of turning up old papers, etc., needed for the action, it is unlikely that claims under pre-1957 contracts regarded as finished will be made by employers; if made they should be resisted though the grounds for resistance are not particularly strong in the writer's opinion.

If the final certificate was issued under the terms of a 1957 edition then any claim to have that final certificate reviewed by an arbitrator to recover alleged wrong payments of holiday credit fluctuations will have to fit into one of the exceptions to the conclusiveness of the final certificate set out in Clause 24 (g); the only possible exception is in sub-paragraph (iii), which states that a final certificate shall be conclusive evidence that the Works have been properly valued in accordance with the contract but that it can be reviewed if there has been "any accidental inclusion or exclusion of any work material or figure in any computation"; but the inclusion of a figure for holiday credit fluctuations in the final certificate has not been inserted accidentally as the sub-paragraph provides but has been quite deliberate. There is no need, therefore, in this case to discuss the question of defending a claim by saying that the fluctuations were paid under a mistake of law and therefore irrecoverable. It should be sufficient to say that they have been paid under a certificate which cannot be reviewed on any of the grounds laid down in Clause 24 (g).

Secondly, one must deal with current rise-and-fall R.I.B.A. contracts. If any holiday credit fluctuations have been paid, in accordance with the good practice recommended by the Joint Contract Tribunal's Practice Note 3, in interim certificates that is no bar to the employer recovering these payments. An interim certificate is always capable of review and it is thus still open to the employer to say that he is going to refuse to reimburse these fluctuations relying on the *Henry Boot* decision. What arguments can one use against this view?

It must be noted that the decision was not concerned with the R.I.B.A. contract and is only persuasive authority for the interpretation of the relevant phrase in the fluctuations clause, 25(A) (1), which allows the recovery of increases in the "rates of wages and other emoluments (including the cost of employers' liability and Third Party insurance) payable by the contractor to workpeople." How persuasive is this case in interpreting Clause 25? Clearly it cannot now be argued that the credits are "rates of wages." The argument must be that they are "emoluments . . . payable by the contractor to workpeople." An emolument is defined by the Oxford dictionary as a "profit from employment" and so one may plausibly argue that the credits are emoluments. Are they, however, "payable to workpeople"? Now Lord Simonds in the *Henry Boot* case was quite clear that the credits were not a wage because it was an essential element in a

(Concluded on page 588)

In Parliament

TRANSPORT MINISTER'S SHARE SALE

Personal Statement by Mr. Marples

THE Minister of Transport, Mr. Ernest Marples, made a personal statement in the House of Commons last week on the immediate steps he had taken to dispose of his holdings in a civil engineering company when he became Minister last October.

He made the statement after Mr. Mellish had raised the question of conditions governing the relationship of Ministers with companies likely to obtain official contracts.

This question was answered by Mr. R. A. Butler, who said directions given to Ministers on matters of this kind had been set out by Sir Winston Churchill when he was Prime Minister in 1952. The general principle was that Ministers must so order their affairs that no conflict arose or appeared to arise between their private interests and their public duties.

Mr. Mellish stated it had been reported that the Transport Minister had been senior partner of a firm of contractors which had obtained a contract for nearly £1m., and that the Minister was now trying to dispose of his shares in that company. He suggested it was "most improper" for a Minister to be associated with a company which had official contracts.

To this Mr. Marples replied in his statement:

I was at one time a director of a company called Kirk and Kirk. I entirely severed my connection with them in 1950. Before I became a junior Minister in November, 1951, I was managing director of Marples Ridgway and Partners and I held a controlling interest in that company. As soon as I became a junior Minister I resigned my directorship and ceased to take any active part in the business.

When I became Minister of Transport last October, I realised that there was a risk of a conflict of interest appearing to arise in consequence of my holding a controlling interest in the company. I immediately took steps to effect a sale of my shares.

It has taken some time to arrange this as the company is a private one engaged in long-term contracts in civil engineering, but I hope it will be completed very soon.

Then I shall have no financial interest in the company. But I think I should tell the House that the prospective purchasers have required me to undertake to buy the shares back from them at the price they are going to pay if they ask me to do so after I have ceased to hold office. I myself have no option to buy the shares back.

I have not, of course, had anything whatsoever to do with any tenders put in by the company while I have been a member of the Government.

Productivity

When Mr. Wyatt asked about the increase in productivity per hour of British workers since 1954, the Parliamentary Secretary to the Board of Trade, Mr. J. Rodgers, replied that estimates covering all workers were not available.

In the manufacturing, building, mining and public utility groups of industries output per manhour was estimated to have risen by 10 per cent. or slightly more between 1954 and 1959. The rate of increase in other occupations was generally less than in these industries.

Restrictive Practices Court

Mr. Rodgers informed Mr. Lipton that since the opening of the Register, 2,240 trade agreements had been registered. Of these, 770 had been abondoned and 1,470 remained in operation; of these nine had so far been examined by the Restrictive Practices Court.

One complete agreement and certain particulars of another had been found to operate in the public interest. Orders declaring restrictions to be contrary to the public interest had been made, with the consent of the parties, in 34 other cases.

Mr. Lipton: Is it not clear from those miserable statistics that it will take about a hundred years to dispose fully of those price maintenance agreements? Most of them are illegal anyway. When will the Government get a move on with this?

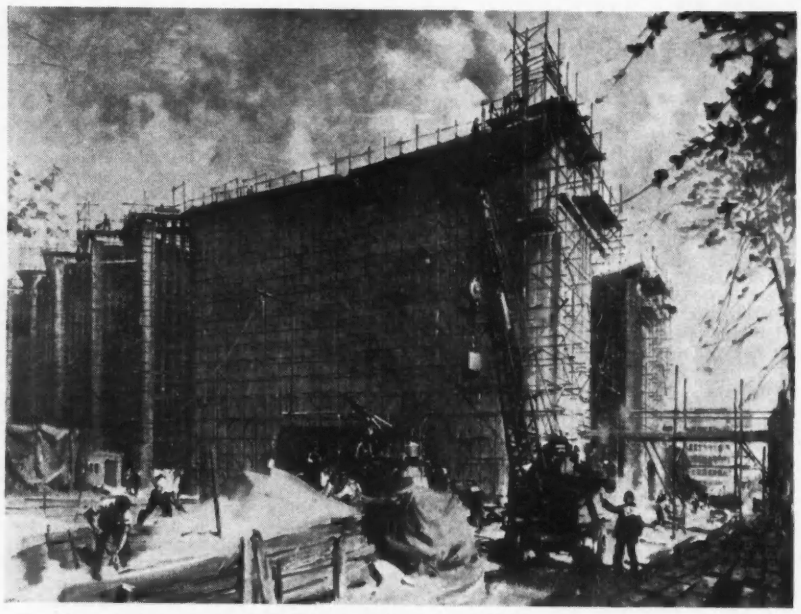
Mr. Rodgers: The figures I have quoted show that Part I of the 1956 Act is operating efficiently. Action has been started by the Registrar to bring a further 120 cases before the court.

Tower (Jewel House)

In a written answer, the Minister of Works, Lord John Hope, told Mr. Parker that he was having discussions with the various authorities concerned about a scheme which had been outlined for a new Jewel House at the Tower of London. If the present proposal proved to be acceptable in principle his Ministry would proceed with detailed plans in the hope that funds would be available to enable the work to start within the next two or three years.

Glasgow-Stirling Road

Replying to Mr. M. MacPherson, the Secretary of State for Scotland, Mr. John Maclay, said in a written answer that the reconstruction of five miles of the Glasgow-Stirling Road had been completed, and work on another four miles was in progress and should be completed within six months. He hoped to confirm within that period Trunk Road Orders fixing the line of a further 7½ miles.



The latest in a series of painting by Terence Cuneo, commissioned by John Laing and Son, Ltd., shows work in progress at Coventry Cathedral. The 80ft. high outer walls of pink-grey sandstone are virtually complete, and construction of the immense concrete canopy above the 270ft. long nave is now proceeding. The canopy will ultimately be supported by 14 concrete columns each 62ft. high—six of which are already in position. These columns, each weighing about nine tons, are delivered in three sections and are joined together on the site, prestressed, and then hoisted into position

BOOK REVIEWS

Examples of the Design of Reinforced Concrete Buildings, by Chas. E. Reynolds. Publishers, Concrete Publications, Ltd. Price 12s. 6d.

This is another of the author's well-known books brought up to date to accord with the latest Codes of Practice, in particular CP.114—"The Structural Use of Normal Reinforced Concrete in Buildings" which was revised in 1957. The book deals with the design of the various members in a building and examines them in accordance with both the modular ratio and the load-factor methods of analysis. Full calculations and drawings are given for a typical building and alternative forms of construction are also considered for certain portions of the structure.

Mr. Reynolds is untiring in his work to keep his books up to date. Unfortunately he has not always extended his vigilance to the matter of costs. He states that flat slabs are not economical for 16ft. square panels. He said the same in 1938. Rates have probably moved in favour of flat slabs since the war, but more significant is the recommendation now included in CP.114 for columns without column heads, which allows of an economical design for short spans.

With each succeeding revision of his books, the author expands the text and covers a wider field. This book is no exception, but its very fullness is in danger of reducing its acceptability. The book has ceased to be readable in itself, comment follows comment, suggestion follows suggestion with such rapidity that there is little time for absorption. Furthermore, a book is not the best form of reference to tables and graphs since the constant turning of pages and holding the book open is annoying to the busy designer—for whom, surely, the book is primarily intended. Now that the author is his own publisher, he might, with advantage, consider extracting the more useful tables and graphs, and including them as standard-sized sheets in a pocket within the book.

We should not, of course, expect all this for a mere 12s. 6d. For wealth of information and good advice there can be no better value in the technical literature on reinforced concrete than this book.

The new address of The Association of Consulting Engineers is Abbey House, 2 Victoria Street, Westminster, London, S.W.1.

PLANNING AND DESIGN OF HANGARS TO SUIT AIRCRAFT TRENDS

AN indication of future requirements in aircraft hangar design was given at the Institution of Civil Engineers last week in a Paper "Planning and Design of Maintenance Bases for Civil Aircraft," by E. O. Measor, partner, Scott and Wilson, Kirkpatrick and Partners, L. B. Haley, civil engineer, British Overseas Airways Corporation, and A. J. Harris, partner, A. J. and J. D. Harris.

They suggested that the right policy in planning hangars was to provide first, a margin for development of the generation of aircraft which were just coming on to the drawing board and whose dimensions could be foreseen with some certainty; and secondly, an expansion margin to accommodate the greater possible length of later aircraft. The authors continued:—

It is practicable to do this in an economic manner because the nose of a modern aircraft and, even more so, of the aircraft of the future, projects well forward of the wing; indeed, in the most advanced aircraft, it projects by nearly a third of the length of the aircraft. In consequence, the nose of the aircraft may be allowed to project beyond the back wall of the hangar, provided that the original design was evolved with this in view.

For short-haul operators, hangars about 150ft. deep are adequate; this is about 25ft. greater than the length of the present Vanguard. At the same time it would be advisable to allow for a projection of about 40ft. beyond the line of columns at the back of the hangar for future aircraft development. For long-haul operators, a depth of about 170ft., with a provision for a possible projection of 50-80ft. beyond the back wall, would seem to be indicated.

Wing span does not seem a critical feature when foreseeing future development, since wing spans will probably decrease with future increase in speed. Tail-fin height is also not likely to increase above the present maximum dimension of 45ft. A door height of 50ft. would appear to meet future possibilities.

It must be added that the small operator has special problems, defining the small operator as one having four aircraft or less to service at the same time. Such an operator will need to maintain flexibility of layout in a small hangar, and his fleet may be more mixed and his maintenance less susceptible to preplanning.

Design Considerations

Most hangars now under construction or recently completed for major airlines consist of long bays (anything from 300ft. to 900ft.) with an unobstructed door opening. Such an opening has obvious major effects on structure, leading either to very-large-span beams across the door, or to cantilever construction, and it is important to examine the reasons for and against this arrangement.

The major advantage is clearly flexibility; there is less restriction on the way in which aircraft must enter the hangar and on the way in which they can be arranged inside. Where the trend of aircraft size, and particularly of wing span, is uncertain, this flexibility ensures maximum utilisation of the space available throughout the life of the hangar. It is clear from what has been said above that this argument will have different emphasis when the needs of short-haul operators are being considered from when it is a question of long-haul operators. With short-haul operators, there is reason to believe that that aircraft will be of such dimensions that columns at not less than 160ft. centres will not greatly embarrass the user.

For the long-haul operator, the uncertainties of shape and size of aircraft make the increased flexibility achieved by the long door opening more important.

The argument for flexibility is not always clear cut. Aircraft can never be packed into a hangar like sardines in a tin; working space must be left around them and in any case an appreciable number of aircraft stalls will be devoted to major overhauls needing fixed staging, whereby flexibility in these areas is precluded.

Various Structural Arrangements

Large-span roofs.—In this solution, the roof structure spans the full uninterrupted door opening throughout the depth of the hangar. Many structural forms have been employed: beams, portal frames, arches, trusses, bowstrings, cylindrical shells, etc. The maximum span built seems to be that of the concrete shell hangars at Marignane, which is 340ft. This span is in no way a limit. With this arrangement, expansion in depth is possible; a hangar of, say, 400ft. by 170ft., is only a *pro rata* increase of one of 400ft. by 150ft. Most of the structural forms available can be adapted to provide daylighting if required.

Large-span door structure and shorter-span roof to back wall.—This represents an attempt to take advantage of the fact that a full opening at the back is not necessary; it is often cheaper to span the roof over the short span and rest it on columns at appropriate centres at the rear and on a primary door structure in the front. The hangars at Helsinki (two bays 250ft. span by 150ft. depth) are an instance. An example of this type for a smaller operator is the Transair hangar at Gatwick. Such a hangar cannot be extended in any direction; provided the rear columns are not too closely spaced, however, nose bays can readily be provided.

Cantilevers.—This is the most popular arrangement at present and has been used for depths of 155ft.; balanced cantilevers are usual, since they require less complicated structural arrangements, though it must be noted that this arrangement requires access to both faces of the hangar.

General Comments

The choice of a design for any particular case must be influenced by consideration of cost and convenience. Before a choice can be made it is necessary to decide certain fundamental requirements. It is necessary to answer these questions: what will be the dimensions and layout of the hangar; will an unobstructed door opening be necessary; will the hangar be double-sided? If the hangar is double-sided and needs an unobstructed door opening of more than 300ft., and if the depth of the hangar does not exceed about 170ft., there is a strong case for the double-cantilever hangar which, as the length of the hangar extends to 600 or 800ft., becomes overwhelming. The formidable list of such hangars already built or projected indicates that the majority of designers support this view.

Where a double-cantilever hangar has been selected as the most economic and suitable type, there is still a variety of of possible designs open; in fact, many types have been built. Earlier American examples tended towards the use of normal structural steel cantilever with light sheet roofs. The present American trend is towards the folded reinforced concrete slab with high-tensile wire suspenders. It need not be supposed that such trends in details of design are necessarily dictated by considerations susceptible to mathematical proof. Fashion also has its influence. In the authors' view, a design embodying concrete members, whether reinforced or prestressed, with steel suspenders, and a light and if possible lighted roof between such members, has more to recommend it than the heavy and cumbersome folded slab. The B.O.A.C. wing hangar at London Airport is an example of such a design.

In the case of a single-sided hangar with an unobstructed door opening, the selection of the most appropriate type is not so clear cut. Where the door opening exceeds 400ft. a single cantilever design would be preferable, provided the depth of the hangar does not exceed 170ft. For door openings between 300 and 400ft. a good deal of investigation of alternative types would be necessary.

Before passing on to a consideration of other types of design and the circumstances for which they are appropriate, it is fitting to make a few observations upon cantilever designs in general. A feature of cantilever designs is the comparatively large deflections which occur at the outside edge which have to be accounted for in the design of the doors and which give rise to some additional cost in this respect. The support of heavy cranes on a long-span cantilever roof is rather expensive. However, it is thought that with the advent of podded engines, heavy cranes are becoming less necessary and the suspension of light cranes is neither difficult nor expensive.

The cantilever hangar has the advantage stressed above that the unobstructed door opening can be extended indefinitely, but the cantilever itself would become expensive and ungainly if it were greatly to exceed 170ft. However, a hangar may be considered to be divided into a nose zone and a wing-and-power-unit zone, and if the columns supporting the cantilevers are at open spacing, it is contended that a cantilever span of 170ft. is adequate for the foreseeable future.

Where a single door opening of less than 300ft. is necessary, or where columns can be allowed along the door opening at centres less than 300ft., it is considered that cantilever roofs would not be advantageous. A choice between the large-span roof and the large-span door structure and shorter-span roof to back wall depends to some extent upon the ratio of the width to depth of the hangar bays. Where a number of bays are placed side by side to form one continuous hangar, the long-span roof necessitates an additional heavily loaded beam at the intersection of the bays. The shell concrete hangar at Abingdon is an interesting example of such an arrangement.

Excellent designs have been produced, both of the door structure and of the long-span-roof type, for hangars for less than six aircraft for smaller maintenance bases. In such cases the cantilever or double-cantilever type are not likely to be particularly suitable. The most economic design for particular conditions depends to some extent upon the relative costs of materials and forms of construction in various countries.

Daylighting and Heat Insulation

There are widely divergent views on the desirability of daylight in hangars. In the authors' view, the amount of natural lighting to be provided in a hangar depends mainly on climate. Wherever climatic conditions are not extreme, as in Britain, maximum daylight is advantageous and desirable, especially lateral light from elevations and door panels. Aircraft wings necessarily cast large shadows from top light and many important maintenance points are in under-wing pockets.

Conversely in continental climates maximum heat insulation is desirable with glazed areas restricted and inclined steeply. This form of roofing has been used by Deutsche Lufthansa at Hamburg and by Air France at Orly. The complete elimination of daylight as in usual

American practice is not believed by the authors to be the best solution.

Hangar Doors

An expensive item in any hangar project is the cost of doors. They are usually 40-50ft. high and of an overall width upwards from 150ft. The designs fall generally into two types: (a) concertina type; and (b) leaf type, of which there are several variations. There was a temporary fashion about 10 years ago in the United States for "up and over" type leaf doors, of which the extreme example seen required a mass of metal weighing 46 tons (about one ton per foot run) to be hoisted at the tip of a cantilever 140ft. long. The structural penalties are obvious and expensive. Leaf doors rolling on multiple tracks and operated by reeved cables have also been used, but cable maintenance is their weakness.

The design most popular at present is the multi-track individually motorised leaf door. Examples are common in the United States, Britain and Europe. American designs tend to be formed from standard structural beam frames with flat-sheet cladding. This makes a heavy but robust and utilitarian door with little pretensions to aesthetic appeal. The usual thickness is about 1ft., sufficient to accommodate motors, clutch, drive and controls, if carefully designed. Doors framed in cold-rolled channels, with welded joints and corrugated aluminium cladding, give a saving in weight, reduction in motor power, and generally better appearance. The weight of doors is usually taken entirely on floor tracks with guide rollers bearing horizontally against top guides to transmit wind loads to the structure. Space does not permit the discussion of details of design, such as drives, power pick-up systems, and protective devices.

The cost of all types of door rises markedly as the height increases. Most recent designs tend to incorporate doors approximately 50ft. high, and it has already been stated that this would appear to make adequate provision for future trends. Many American designs at one time made provision for tail-fin height by means of a so-called tail gate above the general height of the doors so as to economise on door costs. The development of aircraft of higher speeds is tending to throw control surfaces in the tail-plane section higher, and the use of tail gates is considered to have a somewhat doubtful future.

Heating

Because the volume of a hangar is several million cubic feet, capital and running costs of heating should be considered. The heat medium may be gas, electricity, steam, hot water, or air, though in some countries fire regulations may exclude some of them. Cases where gas or electricity are used are rare and are in the radiant form mounted in the roof. Oil- or steam-heated hot-air blower units have been standard practice in the United States until quite recently. British and, to a less extent, American hangars, are increasingly being heated by low-temperature radiant floor heating. This consists of copper or steel pipes embedded in the concrete of the floor with an emission rate designed to give a floor-surface temperature of not more than 70 deg. F. Higher temperatures cause discomfort to workers and tendencies for slab-curling in the concrete. Either serpentine coils or straight pipes are used in diameters from ½in.-1in.

Although the system described is not the cheapest in capital cost, it is economical to run and can often be shown to be most economic overall. Its great advantage is quick recovery of hangar temperature after the doors have been opened and the "fly-wheel" effect of the mass of warmed concrete in which the pipes are embedded. This heat reservoir gives a virtually even load on calorifiers and boiler plant and also provides a reserve for cold spells of a few days' duration. Experience has shown that satisfactory heating is achieved with an emissive surface installed considerably less than current theoretical design calculations indicate to be required. This factor can be used to reduce capital cost. Since the circulation temperature of the water is low no fire or explosion hazards arise, as they would with some other forms of heating.

Fire Protection

Fire-protection methods for hangars are now well tried and codified in Britain and the United States. Although it is obviously desirable to minimise damage to the structure this is not the primary object of fire-protection systems. The capital value of the aircraft in a maintenance hangar is usually several times the value of the hangar itself and the revenue-earning capacity of the aircraft is greater still, having regard to the fact that replacements would usually take several years to obtain. It is therefore imperative that, if a fire or explosion occurs, damage should be confined to the minimum area and that the ambient air temperature should be kept low enough to avoid ignition of other aircraft and to allow their removal to safety. Fire crews must also be able to get close to the seat of the fire and attempt to reduce the complete loss of an aircraft to partial loss.

Other Services

The distribution of electrical power throughout hangars follows normal practice except that flameproof equipment with earth-leakage protection should be used at low level inside the hangars to minimise the explosion risk from vapour. To allow for changes in workshop layout the main distribution can be conveniently provided by a bus-bar system.

Since different aircraft have different electrical systems, transformer rectifiers and frequency changers are required to supply certain workshops. Considerable numbers of compressed-air hand tools are used in hangars and, therefore, central compressors with fixed-pipe distribution is usual.

Other services sometimes provided are high-pressure air (3,000 lb./sq. in.) and vacuum systems, but generally the services not otherwise described in this Paper follow the usual practice of industrial buildings.

The services associated with a maintenance base amount in value to something like 30 per cent. of the cost of the base. For a major maintenance base the mechanical and electrical services are themselves of considerable magnitude. The authors point out that it is vital that the services, with all their associated plant rooms, should be planned at the same time as the civil and structural work. If this is not done there will be a lack of coherence in the whole scheme and conflict between ducts and drains and other services leading to chaotic results.

A READERSHIP SURVEY

"The Contract Journal" is at present undertaking a readership survey.

Readers are invited to assist in this survey and those who obtain their copies from newsagents will find in this week's issue a questionnaire in the form of a reply paid postcard which they are asked to complete and return as soon as possible. Readers who subscribe direct will have received their questionnaire by post at the same time as they received their copies of the Journal.

The information obtained will be of considerable value to the publishers and will, in turn, prove of benefit to both readers and advertisers.

May we have your co-operation please?

MULTI-STOREY MECHANICAL GARAGE PROJECT

THE City Corporation Court of Common Council have approved terms for a building lease in connection with a multi-storey mechanical garage and office block proposed at Shoe Lane, on a site bounded by Robin Hood Court and New Street Square, London, E.C.4.

The mechanical car park, which will be separate from, but adjacent to, the office building, will be 10 storeys high and will be equipped with two lifts, each capable of carrying two cars at a time. Cars will be moved from the lift and parked by mechanical dollies, and it is estimated that four cars a minute can be parked under this system. Accommodation will be provided on the site for about 240 cars. A petrol station together with servicing bays are also included in the project.

A precast concrete frame will be used for the garage, and flooring will consist of precast trough units covered with a lightweight in-situ topping.

The adjacent seven-storey office building, which will be of concrete construction, will have precast external columns and Pierhead flat slab construction. In the basement will be a garage for 15 cars. Work on the site is expected to start in June, and both buildings will take about 12 months to complete.

The development is being undertaken by Parcar, Ltd., a company owned jointly by Mitchell Engineering, Ltd., of London and Peterborough, and Unit Construction Co., Ltd., of Feltham, Middlesex. Howard V. Lobb and Partners, 20 Gower Street, London, W.C.1, are the architects, and the quantity surveyors are Messrs. Gleeds, 106 Regent Street, London, W.1. The main contractors will be Unit Construction Co., Ltd., and special sub-contractors will include Mitchell Engineering, Ltd. (mechanical equipment), and Pierhead, Ltd. (frame and floor designers).

CUT IN L.C.C. SCHOOL IMPROVEMENTS PROGRAMME

The Minister of Education has informed the general purposes sub-committee of the L.C.C. Education Committee that he is unable to increase the allocation of £650,000 for minor improvements to schools during 1960-61. The committee originally planned a programme costing £1,205,000.

Allocations for minor building projects, the Minister states, must depend on the total sum available. This was determined as part of the Government's economic policy. Even though the total sum might remain fairly constant from one year to the next, he had to take account of the relative needs of local education authorities. A reasonable share of the total resources had also to be reserved for voluntary schools.

(Concluded from page 585)

wage that it "should be paid to the workman for work done by him." Is it an essential element in an emolument that it should be paid to the workman? If not, then surely the contract has, unfortunate as it may seem, cut down the meaning of emolument to those "payable to workpeople"—and the House of Lords has said that credits are not paid to workpeople at least in the sense that money in a wage packet is paid to workpeople. These are clearly very fine points of interpretation and it is a great pity that the *Henry Boot* judgments should have left these doubts about so widely used a contract as the R.I.B.A. Clearly, however, employers have strong arguments for withholding holiday credit fluctuations, and only the House of Lords can now settle whether or not these arguments are conclusive.

WIMPEY TO BUILD NEW TATTERSALLS STAND IN TEN MONTHS

AT the close of the July meeting at Ascot Racecourse, George Wimpey and Co., Ltd., will move in to begin work on the demolition and rebuilding of the Tattersalls stand at a cost of about £1m. The new stand is to be ready for Royal Ascot in June, 1961, allowing a construction period of only 10 months.

In order to guarantee a handover date, the Ascot Trustees last year appointed Wimpey both to design and construct the new stand. This has allowed the building operations to be pre-planned. Mr. E. V. Collins, A.R.I.B.A., has led the contractors' architectural team and Mr. D. Dennington, B.Sc., A.C.G.I., A.M.I.C.E., their structural engineering team.

Crux of the Design

The crux of the design is the provision in the stand of 280 private boxes, each with a private dining room en-suite. These are provided on three levels of cantilevered balconies and this unique feature has led to the use of a steel framework, basically welded and mainly of universal beams. The stand is a prismatic structure with the frames at 20ft. centres and the balconies on a 12ft. cantilever.

The total weight of steelwork involved will be 1,100 tons. This will be fabricated by the South Durham Steel and Iron Co., Ltd., at their London depot. There should be no hold-ups in supply as it will be transported by river to Windsor, within easy distance of the site.

The new stand, extending 560ft. from the Royal Ascot enclosure on the west to the Silver Ring enclosure on the east, will provide greatly increased accommodation and general amenity for about 13,000 people, of which 8,000 will have free access to a terrace of steps sloping up from the front lawn to a height sufficient to give a clear view of the whole track. Rising beyond the steps for the full length of the stand will be 1,800 numbered tip-up stall seats, and projecting over the terrace will be the three levels of boxes.

At ground floor level an additional 100 Totalisator windows will be provided and from this level four flights of escalators with a capacity of 6,000 an hour serve a mezzanine floor giving generous access ways to the terrace steps and stall seats, bars, refreshment rooms and toilets.

For the upper and lower rows of boxes, the dining rooms have been achieved by "split level" planning, whereby from each 5ft.-wide box there is a half flight of stairs going either up or down to a dining room, 10ft. wide and 21ft. long containing a fitment complete with sink and hotpoint for serving meals to eight persons. The middle row of boxes are double size, being 10ft. wide and joined, without stairs, to a dining room correspondingly larger.

Entered from corridors at the rear, the dining rooms are on five floor levels. Ten electric hoists, connected to the kitchens in the basement, bring food for distribution to serveries at dining room level. Toilets are provided on each floor. By means of split level planning, approach can be made from all the box suites by a half flight of stairs to two large halls, each containing 32 Totalisator windows. Within each of these halls will be a bar situated on a promenade deck with a view on to the rear lawn of the Tattersalls enclosure. Six lifts, travelling at 300ft. a minute, will serve the five dining room levels.

Overhanging the boxes, stall seating and terrace steps will be a 40ft. projecting roof canopy without supporting columns. This will be formed of steel frame lattice girders, and the underside will be sheeted with green plastic. The roof covering will be asbestos. On the edge of the roof will be a special platform with vision to all parts of the track and enclosures for race commentator and news cameramen.

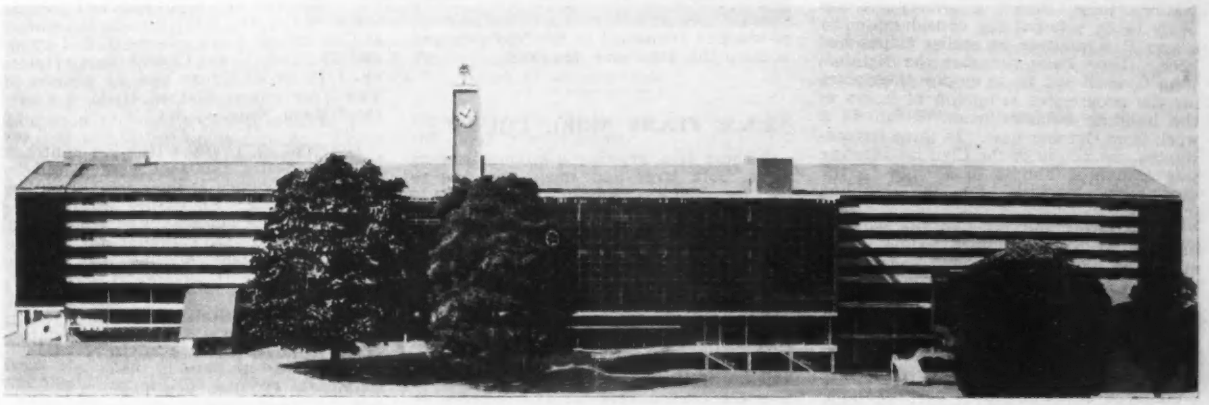
Precast Floor Units

The floors and the balcony fronts will be of precast concrete units, the latter being in 10ft. lengths with a bold ribbed pattern and covered by a teak rail. The bulk of the concrete will be left undecorated.

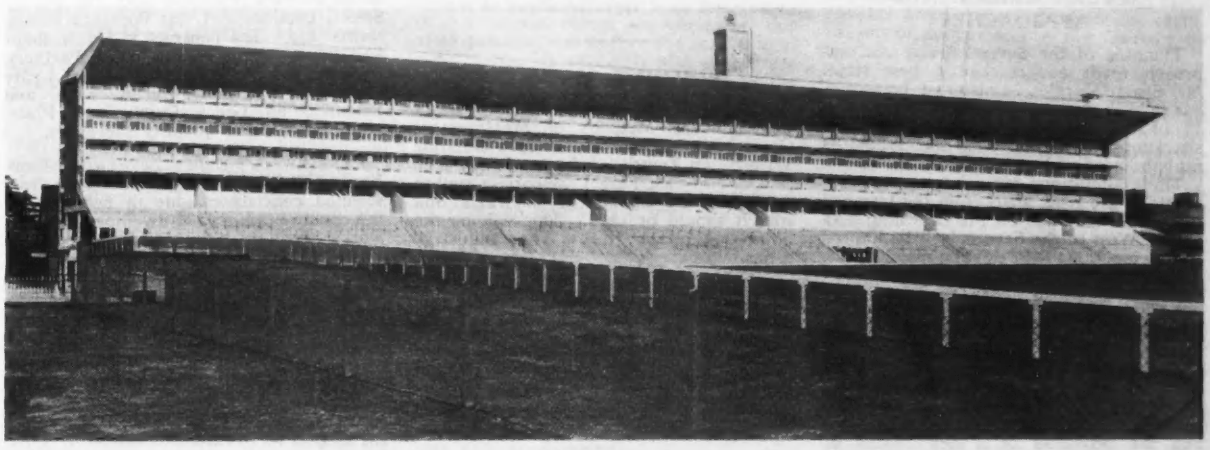
The steel frame will be encased in concrete, this and the stairways being the only in-situ work involved. Each end of the building will be faced in red brickwork and the rear elevation will be curtain walling. The front walling will be mostly taken up with timber windows and doors.

The stand will be 70ft. high, with a clock tower 120ft. high. In construction the building will be divided into three sections of nine, nine and 10 bays of 20ft.

Sub-contractors include: Concrete (Southern), Ltd.—precast concrete floor units; Cawood, Wharton and Co., Ltd.—precast concrete panels and staircases: and Otis Elevator Co., Ltd.—lifts, escalators and service hoists.



Rear elevation



Front elevation of the new Tattersalls stand

MOWLEM'S £5¼M. DURHAM RESERVOIR CONTRACT

A CONTRACT worth £5¼m. has been placed with John Mowlem and Co., Ltd., 91 Ebury Bridge Road, London, S.W.1, by the Sunderland and South Shields Water Company for the construction of a reservoir with a capacity of 11,000,000,000 gallons of water and a daily yeild of 32,000,000 gallons.

The reservoir will be sited five miles west of Consett, County Durham. An earth dam will be 3,000ft. long and 116ft. high and will contain a reservoir 3½ miles long and one mile wide covering an area of 1,000 acres.

The scheme will take six years to complete and will be one of the six largest reservoirs in the country. While it is under construction other contracts will be let for a water treatment works at Mosswood, 2¾ miles from the reservoir, and an aqueduct between the reservoir and the treatment works.

Construction will be under the direction of the general manager of the Water Company, Mr. A. G. McLellan, B.Sc., M.I.C.E., M.I.W.E. Both the company and the Durham Water Board, who are joint promoters of the scheme, are to construct separate pipelines to carry water supplies to their consumers.

BUILDER ATTACKS CIVIL ENGINEERING AGREEMENT

Mr. K. L. G. Warne, member of the National Council of the Federation of Master Builders, speaking at the annual dinner of the Cardiff branch said the civil engineering firms seemed to have decided to go it alone. They knew well enough that the building operatives' claim for 4d. an hour extra was to be considered by the National Joint Council in January and was likely to be referred for consideration by a special committee. as earlier claims had been. They knew too that the National Joint Council had set in motion their plans for the progressive reduction of hours in the building industry from 46½ to 44 a week from October next. In these circumstances, the action of the Civil Engineering side amounted almost to a snub to the negotiating machine for the building industry.

If the terms and rates of the building industry as a whole were to be determined by those in the civil engineering industry, it was time to consider the relevance of the negotiating machine to today's conditions. Immediately, however, the industry awaited prompt and clear guidance on the appropriate designation of civil engineering and building sites. Otherwise a confused situation would be worse confounded.

SEVERN BRIDGE AND APPROACHES

Planning of the Severn Bridge and approach roads has reached a new stage. Mr. Ernest Marples, Minister of Transport, has published a draft Order under section 13 of the Highways Act, providing for alterations to public roads and footpaths near the proposed new bridge.

These alterations are necessary because access to the road, apart from the terminal junctions with A.38 on the East and A.48 on the West of the Severn, will be limited to two junctions with existing major roads. These junctions will be with the Aust-Almondsbury Road (B.4461) by means of a spur road at Aust, and with the Newhouse Farm Road and the future Wye Valley Link Road.

The alterations include re-alignment and regrading of 21 lengths of existing roads and footpaths, the construction of 14 new lengths of road and eight new footpaths, and the provision of a new means of access to private property affected by the construction of the new road.

BRITISH MOTOR CORPORATION EXPANSION PLANS

PLANNING applications will be made in due course by the British Motor Corporation for the establishment of new factories in Scotland, South Wales and Merseyside to provide work for 11,000 people by 1962.

Part of a £49m. expansion programme, the B.M.C.'s proposals will include the following main features:

A factory at Bathgate, West Lothian, to carry out complete heavy commercial vehicle and tractor production transferred from Birmingham. Of the building area, 209,000 sq. ft. will be devoted to heavy engine production; 402,000 sq. ft. to heavy commercial vehicles; and 508,000 sq. ft. to tractor production.

At Kirkby, near Liverpool, a factory of 450,000 sq. ft. will be erected for the domestic appliance production of Fisher and Ludlow, Ltd., and a new factory of 530,000 sq. ft. is proposed at Trostre, South Wales, to provide pressings and major sub-assemblies for the expansion of car production. It is also intended to extend the B.M.C.'s existing radiator factory at Llanelly.

A new building for the packing of completely knocked-down sets of vehicle components for overseas assembly plants will be built at Swynnerton in North Staffordshire. This will have an area of 250,000 sq. ft.

It is proposed that the factories in Scotland, Merseyside and West South Wales, costing £9½m., will be built by the Board of Trade for the Corporation on an amortisation basis.

These new factories will provide about three-quarters of the additional area required. It is proposed that areas freed by diversion of production from the Midland factories, and extensions at Longbridge, Washwood Heath and Erdington in the Birmingham area, should provide the space required to balance the production remaining in the Midlands and achieve the expansion required.

B.A.S. PLANS MORE COURSES

"There is a growing awareness among firms, both large and small, that not to use the Building Advisory Service is to put them at a disadvantage with their competitors," stated Mr. T. V. Prosser, national president, at the annual general meeting of the South Wales Federation of Building Trades Employers, held in Cardiff recently.

"In the future," he continued, "in addition to the individual assignments it carries out on behalf of building firms, the Service will be organising more courses and conferences on management and supervisory subjects than ever before. I suggest that building trades employers take the opportunity to go on these courses themselves or to send their representatives to them."

"BUILDING MATTERS"

R. H. Francis, F.R.I.C.S., chairman of the Standard Methods of Measurement Committee, will explain in "Building Matters" on Tuesday, February 9, at 7 p.m. (B.B.C. Network Three) the correct way to specify measurements in contracts and why it should be used. This will be the ninth talk in the "Know Your Industry" series.

"Do we make full use of the ring wiring circuit to supply the increasing number of electrical appliances in use?" Roy Baldwin, M.I.E.E., editor of the *Electrical Times*, will argue this question, in another item in the same programme, with Richard Eve, A.R.I.B.A., and H. E. Comben, O.B.E., F.I.O.B.

Have you completed and posted your Readership Survey postcard?

Late Construction News

EDINBURGH OFFICES CONTRACT.—A contract for the foundations and superstructure of the new head office building in Edinburgh of the Scottish Widows' Fund and Life Assurance Society has been awarded to Holloways Scottish Constructions, Ltd., Edinburgh. Sited on the west side of St. Andrew Square, the building will comprise basement and seven floors, giving a total floor area of 65,000 super. ft. The consultants are: Basil Spence and Partners, architects; Blyth and Blyth, structural engineers; A. F. Myers and Partners, mechanical engineers; Mitchell, Dey and Lackie, electrical engineers; and J. D. Gibson and Simpson, quantity surveyors.

BLACKPOOL FIRM'S CONTRACTS.—Two contracts, totalling £280,000, have been awarded to William Eaves and Co., Ltd., Blackpool, by Pembrokeshire C.C. The first is for the erection at Haverfordwest of county police headquarters with county health offices, clinic, ambulance station and four houses, and the second is for the Haverfordwest New Tasker's Girls' School. Plans are by the county architect, Lt.-Col. Walter Barrett.

WORCESTER COLLEGE.—Subject to Ministry approval, Worcester City Council have accepted the £384,676 tender of Spicers (Builders), Ltd., Ombersley Road, Worcester, for erection of the first instalment of a new teachers' training college. Eleven tenders were submitted.

SHEFFIELD SCHOOL. — Sheffield City Council have been recommended to accept the tender of J. W. Sivil, Ltd., 39 Canterbury Avenue, Sheffield, 10, for the erection of Hinde House Secondary School for Girls, at a cost of £198,162.

WEST BROMWICH CONTRACTS.—At their meeting this week, West Bromwich B.C. were recommended to accept the following tenders: Construction of roads and sewers at Charlemont Farm estate—E. E. Jeavons and Co., Ltd., Lower Church Lane, Tipton, £92,177; 64 dwellings and 35 garages at Yew Tree estate—Nathan Hyde, 6 Claremont Road, Sedgley, £85,326.

HOUSING AT LEEDS.—Housing contracts totalling nearly £600,000 were placed by Leeds City Council at their recent meeting. They comprise: Eighty-five dwellings as stage II of the Queenshill scheme—N. B. Bell and Co., Ltd., Frankland Terrace, Leeds, 7, £123,000; 201 dwellings at Ebor Gardens, stage II—Reema (Chesterfield), Ltd., Storforth Lane, Chesterfield, £351,470; 42 dwellings at Swinnow estate and 46 dwellings at Moor Grane estate—N. B. Bell and Co., Ltd., £110,384.

LONDON OFFICES AND FLATS.—Tersons, Ltd., 4 Dollis Park, London, N.3, are about to start work on the erection of a block of offices, flats and maisonnettes at 18-25 Park Crescent and 124 Harley Street, London, W.1, for Pontsarn Investments, Ltd. The contract is worth about £430,000. Fitzroy Robinson and Partners, 3 Grays Inn Square, London, W.C.1, are the architects, and Burley Lane and Partners, 66 Great Cumberland Place, London, W.1, the quantity surveyors.

CAMBERWELL REDEVELOPMENT. — Camberwell B.C. are inviting tenders from selected contractors, due in Feb. 22, for the construction of 524 dwellings, external works, ancillary buildings, etc., at Acorn Place redevelopment area. Plans are by the borough architect, F. O. Hayes, and the quantity surveyor is Oswald E. Parratt, Adelaide House, London Bridge, London, E.C.4.

WESTMINSTER FLATS.—The fixed-price tender of Gee, Walker and Slater, Ltd., 100 Park Lane, London, W.1, has been accepted by Westminster City Council for redeveloping section 1V of Churchill Gardens. Eight blocks containing 258 flats are to be provided at a cost of £573,307.

L.M.B.A. ANNUAL LUNCHEON

Minister on Training Youth for Skilled Occupations

THE vital importance of training young persons for skilled occupations in industry in the next few years was emphasised by Mr. Edward Heath, Minister of Labour, when he spoke at the annual luncheon of the London Master Builders Association held last week. He said the level of training activities would be of the greatest importance and one in which the public would be rightly interested during the next few years when there would be a marked increase in the number of children leaving school.

The Minister was responding to the toast of "Her Majesty's Government," proposed by the President, Mr. K. J. Pearce, who, paying a tribute to the Minister, said that in the course of his tours he must have seen the building industry very hard at work all over the country. With a labour force of over a million, obviously they represented one of his best customers—a customer, he hoped, which would give the Minister the least worry. One was encouraged to say the success of labour relations in the industry was such that the Minister would have very little worry in that connection. And the President suggested that other industries might well follow that example.

Mr. Pearce said the Government were always stressing the need for education and training in industry; and he drew attention to the Association's activities in the way of craft apprenticeship, students' training, general foremen's training, management training, education and conferences, accident prevention and many other aspects. These were only part of the Association's activities, which were all designed to provide skilled men and trained teams, so sorely needed. The industry wanted to be assured of a full and steady work load, so that they, and the country, might reap the full benefit of efforts in response to the Government's requests.

It was the Association's sincere hope that the Government would acknowledge their point of view and avoid the frustrations they had suffered in the past—all too frequently—of the turning off and on of the tap. That was not good for the employers or for the men. If the industry were given the opportunity to carry out their work and to obtain sufficient return to enable them to do all they would wish, he pledged the Association to strive to the utmost to provide speedy and practical answers to the appeals made by the Government.

Minister's Reply

After thanking the Association most sincerely on behalf of all the guests for its hospitality, and the President for his proposal of the toast, the Minister said he was very pleased to be present on that occasion for a number of reasons. One was the very happy and harmonious relationship which existed between the Association and the Departments of H.M. Government, and in particular the Ministry of Works and the Ministry of Labour.

There were several reasons now for congratulations. We were living in days of very great activity for the building industry. The changing skyline and the face of things showed how much the builders were doing and what their contemporary achievements were. There was still a task for them in Greater London. There were £35m. worth more major works of construction outstanding at the end of last October (the last quarter) than there were a year ago. Secondly, during the nine months ended last September nearly 23,000 houses were started in London, compared with 19,000 a year ago. These were remarkable figures.

All this had naturally resulted in a considerable increase of employment, and the unemployment figure for last year was only 5,714 in the building and construction industry, so that the problem now was not so much to find work for men to do as to find the craftsmen for the work the industry were doing.

Mr. K. J. Pearce with the Minister of Labour, Mr. E. Heath, at the luncheon

Policy of Expanding Economy

Recalling the President's reference to the need for continuity, the Minister said the Government appreciated that need socially and from the point of view of keeping the teams together. It must be the object of the Government's policy to maintain an expanding economy, which had led to this situation, and also a balanced economy. That was the only proper basis for ensuring continuity, a steady load of work, and that was the object of the Chancellor of the Exchequer in his economic policy.

The Minister was delighted to hear of everything the Association were doing in connection with training; from the reading of their annual report one knew that this vital question was well in the forefront of their minds. A relatively high proportion of the intake of the new members of the industry were taken on as apprentices or learners.

Recruitment of Apprentices

In industry generally, including building, the number of new apprentices went down in 1958, no doubt as a reflection of the economic climate. Figures so far available for 1959 related only to the first nine months. They provided a fairly reliable indicator, although they did not include the numbers of those who left school at Christmas and who were absorbed into industry.

The number entering building in the first nine months as apprentices or learners was 18,102, compared with 15,136 in the same period of the previous year, an increase of nearly 20 per cent., which was very encouraging.

These figures did not distinguish between apprentices under formal indentures and others receiving training under less formal arrangements. The main increase might well be among the latter category. Everyone would be more pleased if the increase were more among the indentured apprentices; but the total increase in training in the industry was heartening, and he offered his congratulations.

Following the lead of the Industrial Training Council, the National Federation of Building Trades Employers had suggested that the recruitment of apprentices in the industry should ultimately be increased by one-fifth beyond the level of 1947, when 16,250 indentured apprentices were registered. He hoped that the expanding trends in the industry would be reflected in the increase of the number of apprentices under indentures and that the target laid down by the Federation would be reached.

New Types of Craftsmen

There was another problem which faced the industry. The use of new materials and new building methods might alter the demand for occupational skills, and the industry might need to consider whether it should think and train in terms of craftsmen with new skills or with greater versatility covering a wider range of skill. The main risk was not that technological change would make craftsmen obsolete, but that training patterns might prove too set and might not be adapted quickly enough to produce the new types of craftsmen needed.

The main burden for training fell on small or medium firms, which in terms of numbers employed constituted a great part of the industry. Larger firms, although in some cases having a proportionately less need of skilled men, still required substantial numbers; but because their activities were so widely spread and they could not offer prospects of continuous employment in one area, they felt unable to recruit apprentices who did not normally work away from their home district. This was a problem for the whole industry, and he hoped it would be possible to find a solution.

Annual General Meeting

Presenting the annual report at the annual general meeting held prior to the lunch, Mr. K. J. Pearce, president, said there had been a great deal of talk recently on the subject of prices and the rise in the Bank Rate probably emphasised the importance of this.

It was the building owner—the customer—who could best assist in reducing building costs. The recently issued Code of Tendering Procedure explained fully why it was so essential that the building owner should make up his mind, why his professional advisers should be allowed adequate time to prepare full documentation and why the builders should be given advance notice of his intentions and adequate time to prepare his tender. All this would make possible proper organisation for the carrying out of the contract by the desired time and at a fair price.

"I urge all building owners, whether public or local authorities or private owners, to follow the suggestions set out in that Code and I equally urge all builders to demand full documentation before agreeing to submit a tender," he said. "For the sake of good building we must all be prepared to discipline ourselves in this matter."

Land Problem

Speaking on the annual report, extracts of which appeared in our last issue, Mr. K. P. Rush, of Rush and Tompkins, Ltd., referred to the quinquennial development plan reviews and the need for builders to examine any proposals for amendment of the original plans to ensure that they were not detrimental to the interests of the housebuilding industry. He suggested that builders should make their views known

(Concluded on next page)

RIVER POLLUTION: IMPORTANT CHANGES IN LAW ADVISED

IMPORTANT changes in the law relating to the discharge of effluents into rivers and sewers are suggested in the report* of a sub-committee of the Ministry of Housing and Local Government's Central Advisory Water Committee.

The sub-committee, which sat under the chairmanship of Sir Frederick Armer, included representatives of local authorities, river boards, and industrial concerns. Oral evidence was taken from nearly 100 witnesses and written evidence from 58 bodies.

The report finds that the law deals less than adequately with existing discharges; because, while making it a criminal offence to discharge a polluting effluent it does not define pollution.

Instead, there is a power to make by-laws fixing standards with which effluents must comply. But no such by-laws have yet been made—and the sub-committee, considering the great and increasing variety of effluents, doubt whether any code could be made which would provide complete control and justice all round.

As an alternative to a general standard or definition, which they thought impracticable, the sub-committee recommends that each discharge should be judged individually, on its merits (as new discharges are dealt with at present under the 1951 Act), and that for that purpose dischargers should be required to seek from their river board permission to continue their discharges. The board should have power to grant permission subject to conditions.

The report recommends that application for permission should be compulsory within one year of the passing of the necessary amending legislation: that an applicant should be allowed to continue discharging while the application was being considered: and that there should be a right of appeal to the Minister against any conditions attached by a river board to a permission.

Trade Effluents to Sewers

Alterations are suggested also in the Public Health (Drainage of Trade Premises) Act, 1937. The sub-committee's objective here is to enable local authorities to vary:

(a) Existing charges on "exempted effluents" (i.e. effluents being discharged during the 12 months before March 3, 1937), save where they are fixed by contract. There would be a right of appeal to the Minister against the variation.

(b) Conditions imposed under the 1937 Act—again with the exception of conditions forming part of a contract and again subject to a right of appeal to the Minister against the proposed variation.

Common Law

The sub-committee gave very careful consideration to the case for restricting the common law right of a "riparian owner" to seek an injunction against anyone altering the character or quality of water in the stream.

The majority of the sub-committee found no substantial evidence that the common law was operating inequitably and no ground for recommending a restriction on the right to apply for an injunction. Two members, however, disagreed with this conclusion and put in a reservation (published with the report) in which they express the view that the right to apply for an injunction has imposed heavy expenditure on some industrial concerns. They recommend that exercise of the right should be restricted to those effluents which fall below a standard prescribed in the consent given by a river board, or which cause proven damage.

Final Report of the Trade Effluents Sub-committee of the Central Advisory Water Committee (H.M.S.O., price 3s. 6d. net).

T.C.P.A. STUDY-TOUR IN U.S.S.R.

The Town and Country Planning Association is arranging a special study tour in the Soviet Union for members and their friends interested in town and country planning, town development, building and architecture.

The tour will be for 14 days (June 10-24, 1960) and will include Moscow, Leningrad and Kiev. Travel from London to Moscow and inter-city travel in the U.S.S.R. will be by air. Official visits will be under the auspices of appropriate Soviet authorities. The basic tour fee is £149 but there is a special reduction of £10 for individual members of the Association.

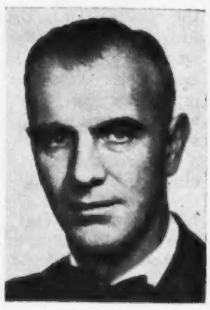
The party will be led by Mr. P. W. Macfarlane, F.R.I.C.S., M.T.P.I., a member of the T.C.P.A. executive. Mr. Macfarlane is a partner in the firm of Minoprio and Spencely and P. W. Macfarlane, town planning consultants.

Itinerary and more details are now available from the Tour Secretary, T.C.P.A., 28 King Street, London, W.C.2. Telephone: Temple Bar 5006.

Obituary

AMONG the passengers in the recent air disaster in Turkey was Mr. Rune Lemner, manager of the marketing department of Atlas Copco AB, Stockholm.

Mr. Lemner flew from Stockholm on the morning of January 19, to make a survey of the sales activities of the Atlas Copco organisation throughout the Middle East, with a view to further expansion of the company's activities. This was to have been his second long distance business tour since his appointment as marketing manager in September, when he succeeded Mr. Olof Nibell.



Born in Stockholm on May 16, 1918, Mr. Lemner joined the Atlas company in 1943 as a sales engineer. In July, 1945, he became sales service engineer in Buenos Aires. A transfer to the group's Peruvian company followed in September, 1950, and he was appointed managing director of that company in 1953.

It is also with regret that *The Contract Journal* records the death of the following:

Mr. Norman Billington, aged 47, surveyor and architect to Lothingland (Suffolk), R.D.C.

Mr. Arthur Gilbert Berry, aged 77, a partner in the firm of Berry, Crane and Noble, architects, of Norwich. He was for four years president of the Norfolk and Norwich Association of Architects.

Mr Ernest North, who retired in 1958 from the managing directorship of H. V. Smith and Co., Ltd. He was secretary of the company since its inception in 1909, became a director in 1930, and was elected managing director in 1954.

Mr. C. F. Mattocks, aged 52, architect and surveyor of Chatham, Kent.

DIRECT LABOUR AT ROTHERHAM

Rotherham B.C. have approved in principle a proposal for setting up a direct labour department for building, maintenance and repairs and also the appointment of a building manager and staff.

(Concluded from previous page)

through M.P.s to Parliament. Policy needed pursuing at the highest level.

Supporting Mr. Rush, Mr. D. G. Howard, of M. Howard (Mitcham), Ltd., said that action at high level would be welcome but each region must also act. The shortage of land for housing was bringing up for redevelopment many old properties, which was to be welcomed, but the developments should be well planned and the buildings not dotted here and there.

Mr. P. E. Trench, director of the National Federation, said the Federation considered the availability of land one of the most important of today's problems. In the long term he thought there was a need for a Royal Commission or independent tribunal to look into the whole question of land usage. In the short term the Ministry of Housing must be approached, and with this in view, there was at the present time a working party of builders preparing a document which would outline practical proposals which they would seek to put before the Minister.

Referring to the recent wage and hours award made in the civil engineering contracting industry, Mr. T. V. Prosser, the National President, denied that there was a split between the N.F.B.T.E. and the F.C.E.C. or that there had been a lack of liaison. The builders felt that they both should pursue a parallel course but they realised that this was not always possible as there were differing circumstances and conditions in civil engineering contracting. The builders had not seen completely eye to eye with the contractors but the latter had the right to make their own decisions because the liaison committee was not a joint negotiating body. Builders should not feel put out because the contractors had agreed a wage award while their own negotiations were still in progress. He felt the benefits of production and an expanding economy should be shared by all concerned but the matter must be left to the industry's joint negotiating committee. He hoped all members would accept any decision arrived at in the right spirit.

Replying to a question on direct labour, Mr. P. E. Trench, assured the London members that action was being taken at national level. He believed direct labour was one of the biggest menaces facing the Federation. They were preparing a factual document which would give the case for and against direct labour.

Election of Officers

Mr. E. J. Cook, a director of Richard Costain, Ltd., was elected president for 1960; Mr. R. F. Mansell, senior vice-president, and Mr. P. H. Bates and Mr. A. R. Mais, junior vice-presidents.

The following were elected to the Council: H. Aldous (A. Roberts and Co., Ltd.); R. W. Brocksopp (G. Holland and Sons); E. G. S. Buchanan (W. H. Lorden and Son, Ltd.); H. J. Falkus (Falkus Bros., Ltd.); T. Freakley (Taylor Woodrow Construction, Ltd.); D. G. Howard (M. Howard (Mitcham), Ltd.); W. R. Leddington (W. S. Try, Ltd.); A. G. Miles (Hammond and Miles, Ltd.); K. P. Rush (Rush and Tompkins, Ltd.); R. A. Wood (J. W. Falkner and Sons, Ltd.).

Mr. N. E. Wates (Wates, Ltd.) was appointed hon. auditor.

VOLUMETRIC CALCULATIONS BY AERIAL PHOTOGRAPHY

A TECHNIQUE for the integration of aerial photography, photogrammetry and electronic computation to provide accurate volumetric and similar data for civil engineering purposes was the subject of a recent visit to the Elstree laboratories of Hunting Surveys, Ltd.

Hi-Spec is the name adopted by the company for this technique, which exploits to the fullest extent the most modern means of photogrammetric data interpretation for electronic computation in conjunction with specific engineering design information. By this introduction of photogrammetric and design data simultaneously into an electronic computor, earthwork volumes, stake line distances and similar information can be rapidly calculated for a proposed road. The same technique can also be applied to other types of project, such as reservoir capacities and stockpile quantities.

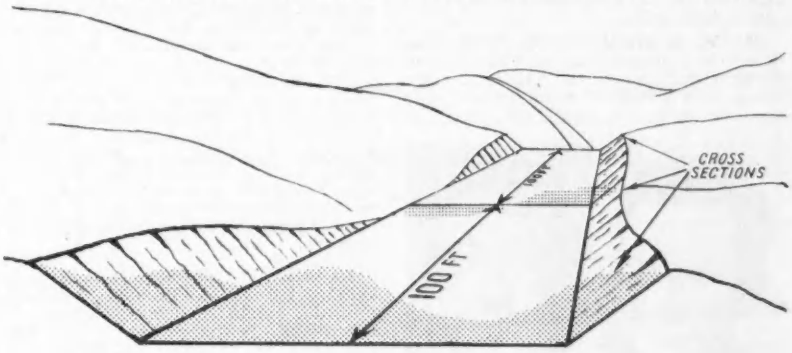
Aerial Survey

The first stage in providing the necessary photogrammetric data consists of carrying out air photography of the area under consideration, the aircraft normally flying at 1,500ft., which gives a photographic scale of 1:3,000 and a width of usable photographic cover of about one mile.

Co-ordinate and height values to selected ground points are provided by a ground control, which is kept to a minimum, and the precise identification of these points on the air photographs allows the photogrammetrist to set overlapping pairs of photographs in the plotting instrument for accurate readings. As a necessary basis for planning and layout work, plans are plotted at 1:500 scale.

In addition to the plotting of these large-scale plans, a profile is prepared along the centre alignment of the proposed road, and cross sections are taken at 100ft. intervals along this line. Terrain cross sections obtained by photogrammetry can be superimposed on typical cross sections supplied by the engineer and will show the areas of earth movement required. Since this information is available at 100ft. intervals along the length of the proposed road, the volumes can also be obtained.

Hunting Surveys, Ltd., have prepared a programme, in association with Elliott-Automation, Ltd., which when fed into the electronic computor with typical cross-section data, terrain cross-section data and grade elevations, will produce the necessary information. It will give the area of cut and/or fill at each cross section, including the net area if there is both cut and fill; the volume of cut and/or fill from the previous cross section including the net volume if cut and fill occurs; and the sum of the net volume including all cross sections with the sum of cut-and-fill volumes, again including all cross sections. These figures emerge from the computor at a rate of about one mile of the proposed route in 12½ minutes. The points of intersection of terrain cross sections and the typical cross sections will be given as the distance above or below the grade line, with distances at right angles to the centre line.



Volumes are assessed from computation of areas of cut and fill taken at 100ft. intervals along the whole length of road

Other Applications

The computor can decide whether a road is on an embankment or in a cutting at any given point, and can also differentiate between left- and right-hand sides of a road, dealing with each side separately, if required. These methods used in highway planning can also be applied to the planning and location of such similar "strip" constructions as railways and canals.

For applications such as assessment of reservoir capacities and amounts of earth movement needed in the levelling of building sites, a much simpler computor programme is used, involving only a series of calculations of volume, together with a summation of all the calculations made. The photogrammetry data consists of a series of height values read off at regularly spaced intervals over the whole area under consideration. Accuracies to 1½-2 per cent. in these volume assessments are easily obtainable in normal work, and this can be improved by taking a more dense network of height values into consideration.

Among the advantages which Hi-Spec can offer to civil engineering, it is claimed, is the large saving in time and effort with regard to the production of earthmoving quantities and other data. The method also gives the engineer an opportunity of studying the consequences of alternative road alignments and dam heights without the lengthy recalculations which would normally be necessary.

CRANES FOR BUILDING

Manufacturer's Comments on B.R.S. Digest

THE George Cohen 600 Group, Ltd., write:

The assessment of the role of the mobile crane in building work given in the Building Research Station's Digest 129, featured in *The Contract Journal* of January 7, is open to criticism on a number of points. For instance, it asserted that the low-mounted, i.e. "strut," jib, being liable to foul the front of a building, needs to be "60ft. or 70ft. long to cover a pair of council houses."

While this statement is not incorrect, it leaves out of account the availability of other types of jib. From among these one could cite the cantilever and swan neck types, as well as the "jury mast" or other equivalent jib extension specifically designed to give increased outreach for this kind of work.

The further criticism that the pneumatic tyred mobile crane can be driven only at slow speeds on the road between sites again leaves out of account the availability of machines having "fast travel" characteristics, such as the Jones KL 10-10 Mobile Crane. This has been designed precisely to overcome the problem of movement from site to site without recourse to a lorry chassis. A long wheelbase allows road speeds of up to 30 m.p.h., all crane motions and road travel are powered by the same prime mover and all controls are located in a single cabin so that only one driver is needed. While the long wheelbase means some sacrifice of manoeuvrability on site, the crane can nevertheless be operated under conditions unsuitable to the lorry-mounted machine and the optional choice of 6 x 6 drive to the road wheels ensures that the machine can be operated in all but the worst of ground conditions.

So far as the conventional mobile cranes in the Jones range are concerned, again the road speeds available, although limited, are not so low as might be inferred from the Digest. The use of the direct diesel mechanical transmission system means that the full power of the engine can be applied to any crane motion and to the road wheels when required. Sustained speeds of up to 10 m.p.h. are perfectly possible—indeed, the rated road speed of the 20-ton capacity Jones KL 12-20 is even higher, being conservatively quoted at 12 m.p.h. These speeds, while admittedly insufficient for long journeys, are nevertheless adequate for the economic transfer of a crane from one site to another over a distance of, say, 20 miles. And since the great majority of the smaller and medium sized building contractors normally restrict their contracts to within a radius of little more than this distance from their base, the available road speed is certainly adequate to their needs.

Finally, the Digest badly underestimates the abilities of the pneumatic tyred mobile crane to operate on soft ground.

STRUCTURAL ENGINEERS

Contribution in Atomic Field

In a Paper presented at a meeting of the Institution of Structural Engineers in London last week, Mr. T. C. Waters, M.I.Struct.E., chief structural engineer, United Kingdom Atomic Energy Authority (Industrial Group) said the contribution made so far by the structural engineer in the field of atomic energy as presented by hard facts had been of paramount importance.

In this new industry his duty was to design simply and for flexibility, to build quickly and to build well. He must acknowledge that the efficiency of the Calder Hall reactors, largely a function of their operating temperatures and pressures, was limited by site welding techniques and the quality of available steels. Nevertheless, the lessons learned from these reactors, together with advances since made in design and construction techniques, would enable more recently built gas cooled power reactors to operate at higher temperatures and pressures, and therefore at a higher efficiency rating.

The structural engineer must be ready to meet the challenge of the nuclear physicist. It was essential therefore that research and development should continue to be pressed forward in a spirit of urgency, to ensure that lack of knowledge in these highly important fields did not constitute a bottleneck in the advances which must inevitably develop in the design and construction of nuclear power reactors. Therein lay the greatest contribution of the structural engineer in the field of atomic energy.

Men and Movements

THE R.I.B.A. Annual Discourse for 1960, entitled Architecture in Evolution, will be given in March by **Dr. Constantinos A. Doxiadis,** a Greek consulting architect planner and engineer. Dr. Doxiadis describes himself as a consultant in Ekistics. Developed mainly by him, the term has been coined to denote The Science of Human Settlements, the concept of the inter-relationship of man and his environment in which the architect, engineer, town planner, sociologist and geographer are seen as equal partners in a team with other specialists. From 1945-48 he was the first Minister of the new Housing Reconstruction Ministry and Co-ordinator of the Greek Recovery and Economic Development Programme from 1948-51. He has been a visiting lecturer at the Massachusetts Institute of Technology and the Universities of Harvard and Chicago. He is also an Honorary Corresponding Member of the Town Planning Institute of Great Britain and has been Chairman of the United Nations Working Group on Housing Policies in Geneva. In a consultative capacity he has acted for the United Nations and many international bodies.

C. A. DOXIADIS

A number of changes have been made affecting the directorate of Bovis Holdings, Ltd. **Mr. Sidney Glyn,** F.I.O.B., has been appointed president of the company upon relinquishing the offices of chairman and managing director. **Mr. Paul Gilbert,** O.B.E., F.I.O.B., managing director of Bovis Holdings, succeeds Mr. Glyn as chairman and managing director, and remains chairman and managing director of Gilbert-Ash, Ltd., a member company of the Bovis Holdings group. **Mr. Harry Vincent,** F.I.O.B., a director of Bovis Holdings, Ltd., has been appointed an additional managing director. Mr. Vincent remains chairman and managing director of Leslie and Co., Ltd., another member of the Bovis Holdings group. Bovis Holdings have also announced the appointments of **Mr. R. M. Dawe,** F.C.I.S., secretary, and **Mr. A. F. Emmel,** F.C.A., chief accountant, as directors.

Mr. C. W. Matthewman has retired as chairman of The Trinidad Lake Asphalt Co. (North-Western), Ltd. He has been associated with the Trinidad group of companies since 1908, having joined the original Limmer Asphalte Paving Company in that year. From 1933 to 1958 he was managing director of the Liverpool company, and has held the office of chairman since 1955. Mr. Matthewman was chairman of the Asphalt Roads Association for the years 1942 and 1943, and a member of the Council of the Federation of Civil Engineering Contractors for 26 years.

C. W. MATTHEWMAN

The new chairman of A. Monk and Co., Ltd., is **Mr. George Harris,** who succeeds the late **Mr. Arthur Monk.** Mr. Harris will retain the post of managing director.

Massey-Ferguson have effected a reorganisation of their engineering division in the United Kingdom. Under the direction of **Mr. Ewen M'Ewen,** director of engineering, Europe, **Dr. B. F. Willetts,** Ph.D., M.Sc., A.M.I.Mech.E., M.I.Plant E., is now chief engineer, United Kingdom. After being employed at Durham University, Dr. Willetts carried out research for the Ministry of Supply and subsequently served for a number of years with Vickers-Armstrongs before joining Massey-Ferguson in the autumn of 1958. Dr. Willetts' two assistant chief engineers are **Mr. L. E. Summerfield,** who is concerned with implements, and **Mr. H. R. Jenner,** who is concerned with combine harvesters. Another recent appointment within the U.K. engineering division is that of **Mr. Charles Hunt** as chief test engineer.

Mr. C. W. Hamilton, managing director of McCall and Co. (Sheffield), Ltd., and McCalls Macalloy, Ltd., has been elected president of the Prestressed Concrete Development Group for the coming year. Mr. Hamilton has been connected with prestressing from the early days of the Lee-McCall system. He is also at present chairman of the Reinforcement Manufacturers Association.

Mr. W. G. Wood and **Mr. J. H. Gray** have been appointed executive directors of T. H. Contractors, Ltd., Chiswick. Mr. Wood, who joined the company two years ago, and who also holds the office of general manager, was previously in the employment of J. L. Eve, Ltd. Mr. Gray is Kent area manager, and has been with the company for nearly four years. He was previously with Maidstone Borough Council.

W. G. WOOD

J. H. GRAY

The Council of The Incorporated Association of Architects and Surveyors have elected as president for the ensuing year **Mr. W. J. Clark,** F.I.A.S., F.R.S.A., M.R.S.H. Mr. Clark, who works with the materials and information group in the Architects' Department of the L.C.C., has been an active member of the I.A.A.S. since 1934. Elected to the Council of the I.A.A.S. in 1950, he became a vice-president in 1956 and chairman of the Council in 1957. The Council have also elected **Mr. P. Russell Walker,** T.D., A.A.Dipl., F.R.I.B.A., F.I.A.A., F.I.Arb., F.R.S.A., as senior vice-president and president elect. **Mr. A. C. Williamson,** V.P.I.A.A.S., F.R.V.A., was elected chairman of Council and **Mr. S. R. Nevell,** F.I.A.S., F.R.S.A., vice-chairman of Council. The newly elected vice-presidents are **Mr. S. R. Nevell,** F.I.A.S., F.R.S.A., and **Mr. R. Mealings,** F.I.A.A., L.R.I.B.A. **Mr. A. C. Williamson,** V.P.I.A.A.S., F.R.V.A., was elected hon. secretary, and **Mr. S. R. Nevell,** F.I.A.S., F.R.S.A., was elected hon. treasurer.

Mr. H. P. Barker, M.Inst.Gas E., M.I.E.E., M.I.Mech.E., M.Inst.T., F.B.I.M., chairman and managing director of Parkinson Cowan, Ltd., has been elected chairman designate of the British Institute of Management. He will succeed **Lord Verulam** in October.

The British Iron and Steel Research Association have announced that **Mr. S. S. Carlisle,** M.Sc., A.M.I.E.E., head of the physics department, has been appointed an assistant director. He will be especially concerned with the co-ordination of the Association's work on automation and information handling.

Subsequent to the opening of their London offices and depot at East Road, Upper Wickham Lane, Welling, Kent, Kwikform, Ltd., have announced the appointment of **Mr. W. F. Whyman** as London director. He will continue his former executive duties of general sales manager, operating from Welling.

W. F. WHYMAN

Babcock and Wilcox, Ltd., have announced the following changes in staff appointments: **Mr. J. S. Greenhalgh** has relinquished his present appointment as purchasing controller and becomes manager, construction equipment division, with responsibility for control and co-ordination in the manufacture and marketing of new Babcock contractors plant which are to be produced at the Dalmuir Works of the company in Scotland. The headquarters of the new division will be in Tavistock Square, London. **Mr. A. S. Peacock,** A.M.I.Mech.E., M.Inst.F., becomes purchasing controller, in which capacity he will have responsibility for all matters of company buying policy. He will operate from the company's London headquarters.

Sir Harold Roxbee Cox, Ph.D., D.I.C., D.Sc., M.I.Mech.E., F.R.Ae.S., F.Inst.F., F.I.Ae.S., deputy chairman of the Metal Box Co., Ltd., has been appointed as chairman of the National Council for Technological Awards, in succession to **Lord Hives,** who has retired. Sir Harold has been vice-chairman of the National Council since its establishment in 1955.

Mr. T. H. Kirkup, joint managing director of The Limmer and Trinidad Lake Asphalt Co., Ltd., has been appointed chairman of The Natural Asphalte Mine-owners and Manufacturers Council in succession to **Mr. C. W. Argent.**

Reliant Plant Service, of Walsall Wood, near Birmingham, are now developing a sales organisation, having secured several agencies, and **Mr. E. A. Waldron,** formerly of Kwikform, Ltd., and Bristol Plant Hire, Ltd., has been taken into the company to develop the sales of plant.

To further promote the company's export drive, **Mr. John Oswald** has been appointed European representative by J. C. Bamford (Excavators), Ltd., in addition to **Mr. De Mars,** who is already resident on the Continent. Mr. Oswald is a linguist with an intimate knowledge of Europe.

J. OSWALD

Mr. Stanley Thompson, managing director of Walter Thompson (Contractors), Ltd., has been installed president of the Northern Counties Regional Federation of Building Trade Employers. He succeeds **Mr. E. Jeffcock.**

BERKSHIRE VILLAGE SEWER REPAIRED WHILE IN OPERATION

BY driving a 6in. pitch fibre pipe through the old 9in. stoneware pipe, some 650ft. of leaky sewer has been repaired while still in operation at the village of Donnington, near Newbury, Berks. By this method a saving of 50 per cent. has been achieved on the original cost estimate.

The village sewerage system is over 50 years old and it terminated with 9in. stoneware pipes. These discharged into an underground pumphouse, adjacent to a river, and were laid approximately 8ft. deep in a narrow, fully built-up village street. The pumps were grossly overloaded by infiltration of ground water into the broken sewers. The duty and stand-by pumps, rated at 67 g.p.m. each against a total head of 40ft., could not deal with the flow, which with a population of 410 persons should have been about 7 g.p.m.

The consulting engineers, Howard Humphreys and Sons, Victoria Station House, Victoria Street, Westminster, S.W.1, and the contractors, H. N. Edwards and Partners, Ltd., Brook Street, Basingstoke, were faced with the problem of excavating the whole length of the old sewers and of laying new pipes in difficult ground conditions and with consequent disorganisation of traffic through the village. Four methods of dealing with the situation were considered, with estimated costs ranging from £3,000 to £4,000.

The method which seemed to avoid some of the difficulties and to give the best prospects of success was that of inserting 6in. pitch fibre pipe inside the old 9in. stoneware, and cement pressure grouting the space between them.

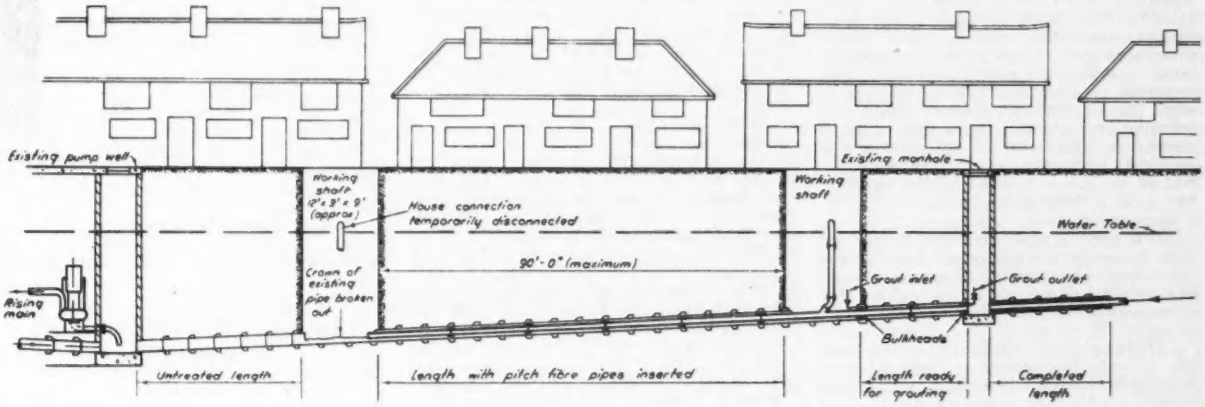
It was, of course, necessary to open up at every junction so that the 6in. pipe could be connected to houses, etc. It was intended to push the pitch fibre pipes through from one excavation to the next. Although this was generally successful it was found difficult in some cases to move the pipes, due to an accummulation of silt in the old stoneware pipes, and there were also some cases of settlement and projections on the inside of the old joints. When this occurred additional excavations were needed.

The pitch fibre pipes were driven with a sledge hammer, through the usual wooden blocks, and the maximum length successfully inserted in one operation was 90ft. The sections of the original drain which were opened up were made good with concrete and the annular space between the two pipes grouted with cement under pressure. The benchings in the manholes were made good to suit the new pipes.

On completion of the work the electricity consumed by the pumps dropped from an average of 65 to approximately 10.6 units per day, and the night flow on the whole system was reduced to 3.5 g.p.m.

The whole of the repair work to the sewer, which included junctions and branches, was carried out in 12 weeks, and the total length of pipe inserted was 218yd. Except for one week, when a local factory was on holiday and it was necessary to complete one section quickly, the gang consisted of a foreman and three men. The cost of the operation has worked out at just under 50 per cent. of the estimated cost of taking up and re-laying the whole length. The total cost of the work was £1,730.

The pitch fibre pipe was manufactured by The Key Engineering Co., Ltd., Larkfield, near Maidstone, Kent, and supplied through W. W. Hall, Ltd., Pearl Buildings, Station Road, Reading, Berks.



STEPPING-UP THE ROADS PROGRAMME

Problem of Traffic Congestion

"THE present roads programme is a welcome start, but it is only a fraction of what must be undertaken if our road system is to work efficiently," said Mr. C. T. Brunner, a director of Shell-Mex and B.P., Ltd., and vice-chairman of the British Road Federation, in a Paper on traffic congestion which he presented at the Royal Institution of Chartered Surveyors last week.

Mr. Brunner, who claimed that Britain had the material resources to build roads at about three times the current rate, if sufficient priority was given to the task, stated that the major and most difficult aspect of traffic congestion was not on roads between urban areas, but in and around the towns and cities themselves. As the Select Committee on Estimates had pointed out last year, "one result of the lack of a national plan has been an over-emphasis on motorways through fields, to the neglect of the problem of urban bottlenecks."

It was a balanced but unstinting development of both which was required; and while this was being done we must utilise the full traffic capacity of our existing roads, he said. More traffic research and engineering could increase, by as much as one third, the capacity of existing streets at comparatively small expense.

Referring to the future Mr. Brunner said: "The number of registered vehicles has doubled since 1949, and can expect to be more than trebled by the late sixties. Mass-production industries have become increasingly dependent on road transport. To win back custom, British Railways might well adopt the American 'Piggy-back' service, whereby trains carry complete lorries or their trailers.

"An essential corollary to restricting long-term kerb-parking and building motorways is the provision of adequate off-street parking facilities. The present minimum parking requirements for new buildings in London are extremely modest. Town planners must, in future, be aware of the additional traffic generated by new planning schemes.

"Unless cities expand upwards, the pressure outwards will burst through the Green Belt, and urban sprawl will cover our countryside. A balanced city should be the aim—future developments should be on the pattern of the Barbican project.

"Helicopters, monorail, roads built over railways, 'clearways' and pedestrian precincts are a few of the developments which may become commonplace in the future."

Mr. Brunner concluded: "Informed opinion is essential and urgent. Decisions on what long-term policies are required for vehicles in cities must be hammered out now. Continued inaction will prejudice the future."

CIVIC TRUST CONFERENCE ON PLANNING PROBLEMS

In the light of the issues raised at the public inquiry on Piccadilly Circus, the Civic Trust has decided to convene a conference to discuss the planning problems involved in rebuilding, as a single entity, an area in divided ownership.

It will also consider whether some new procedure is needed to ensure that public opinion and expert advice shall be heard before planning decisions affecting sites of special importance are taken.

The conference will be held in London in March. Those to be invited will include representatives of local authorities and professional bodies concerned.

NEED FOR "COST CONSCIOUSNESS"

On a visit to the new headquarters of Holland & Hannen and Cubitts (North West), Ltd., the North Western Educational Association for the Building Industry were told by the managing director, Mr. Philip Wyatt, that they could help to inculcate "cost consciousness" in their students.

He said the industry had a difficult task in doing this with existing employees and anything that the colleges could do to help with the rising generation would be worth while. He suggested that as so many exhibitions were held, why not a cost exhibition in which all the various building materials were displayed with a prominent cost label.

Talking of Safety

by "DRAGEE"

DURING the afternoon tea-break Richards and I looked through the files and turned up a doctor's note relating to Brown, the labourer in the concreting gang, with whom I had been talking a few minutes earlier. The certificate bore the solitary pronouncement, *dermatitis*—which was all I expected to see.

"This was issued a week ago. I don't remember seeing a report about it," I said.

"It wasn't reported—in fact he didn't show me the certificate until yesterday evening, and that was only after I had spoken to him about knocking-off before time, last Monday. To be honest, I wasn't quite sure about the procedure. I suppose this sort of thing has to be reported to the Factory Inspector?"

"No, it is not necessary to report a case of dermatitis to the Factory Inspector—for the simple reason that it is not classed as a notifiable disease. However, the Factory Inspectorate will always welcome voluntary reports about dermatitis, as well as other non-notifiable types of industrial disease, since this enables their health experts to keep a check on conditions in industry generally—particularly where new processes are involved. That is the reason why our Company always passes on information about industrial disease, whether notifiable or not, as soon as it is received from the site. And here, of course, we are very much in the hands of our general foreman."

Richards grinned.

"You needn't rub it in—you'd have got your report by the morning. But I'm still not clear about one thing. I always thought that dermatitis was what they call a 'prescribed disease.' Now, is that correct or isn't it?"

"That is correct—or nearly so. I believe the actual description is 'non-infective dermatitis of external origin,' which simply means that the sufferer's occupation renders him liable to exposure to any external agent capable of irritating the skin. This includes friction or heat, but new-fangled irritants such as ionizing particles or certain types of electro-magnetic radiations are excluded."

"I should darn well think so," said Richards. "What does it all mean?"

"Sorry about all that," I apologised. "The point I want to make is that the schedule of prescribed diseases is the sole and undisputed property of the Ministry of Pensions and National Insurance, and the diseases are listed under the National Insurance (Industrial Injuries) Act. There are about 40 altogether. The notifiable diseases—which have to be reported to the Factory Inspector for the area—are 14 in number, and are made up of eight types of poisoning (lead, phosphorus, and so on) and an assortment of six very unpleasant ailments, namely, anthrax, toxic jaundice, decompression sickness, toxic anæmia, and two of the more serious types of ulceration. Each of these diseases is compulsorily notifiable by the doctor who handles the case, as well as by the employers, in accordance with Section 66 of the Factories Act, 1937. The only illnesses which we are likely to encounter in building and civil engineering work are lead poisoning and decompression sickness."

"How do you report an industrial disease?"

"You simply fill up two copies of Form 41 (that's the notice of poisoning or disease), send one to the Factory Inspector for the area, and the other to the local appointed Factory Doctor."

"Do you wait until the man has been away for more than three days?"

"No. It's not quite the same as an accident report on Form 43 or 43B. As soon as the case comes to your knowledge you must notify both the Factory Inspector and the Factory Doctor—I see you have his name and address entered in your General Register: top marks for that! Incidentally, if you have any difficulty in finding the name of your Factory Doctor for the district, you can always obtain it from the Factory Inspector's office. And, by the way, it musn't be forgotten that an entry has to be made in part IV of the general register. If you are in any difficulty you will find all the instructions you need on page 3 of the cover and also on the front of Form 41.

"Mind you, I'm only preparing you for the worst! Industrial disease can be avoided if the boss is alert and conscientious, and more easily if he has the confidence of his employees. Very often an unexpected hazard is encountered, and it may be several hours, or even days, before it is recognised—sometimes it is only discovered when a person is seriously affected. I remember a case where several men received acid burns on their arms and legs during a demolition job. They had come across an old pickling tank which had at one time contained sulphuric acid, and the surrounding material was still heavily contaminated. That, of course, was not a notifiable case, but the Factory Inspector soon got to know about it—and there were a few awkward questions to answer! The trouble there, of course, was simply a general lack of appreciation, from the foreman downwards, of the true nature of the danger. Just another instance of where a little training and foresight would have helped."

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

FOR THE DIARY

Feb. 4.

Meeting of the East Midlands Association of the Institution of Civil Engineers at the Electricity Showrooms, Leicester, at 5.45 p.m. "Some Recent Advances in the Manufacture of Large Prestressed Concrete Units," by J. H. Vince, A.M.I.C.E.

Feb. 5.

Meeting of the Institution of Highway Engineers at 11 Upper Belgrave Street, London, S.W.1, 5.30 p.m. Paper: "Some Modern Developments in Highway Bridge Design." by C. S. Chettoe, B.Sc., M.I.C.E.

Annual dinner and dance of the Contractors Mechanical Plant Engineers (Midlands Branch) at the Chesford Grange Hotel, Kenilworth.

Feb. 9.

Annual dinner of the East Midlands Association of the Institution of Civil Engineers at Nottingham University.

Feb. 17.

Meeting of the Reinforced Concrete Association at 11 Upper Belgrave Street, London, S.W.1, 6 p.m. "Lightweight Concrete Aggregates," by Prof. R. H. Evans, C.B.E., D.Sc., Ph.D., M.I.C.E., M.I.Mech.E., M.I.Struct.E.

Meeting of the London Building and Engineering Contractors Accident Prevention Group at 97 Horseferry Road, London, S.W.1, 2.30 p.m. "Erection and Dismantling of Heavy Plant and Equipment."

Feb. 17 and 18.

General building safety training course at the Merseyside Building Safety Training Centre, Stopgate Lane, Liverpool, 9.

Feb. 23.

Institution of Plant Engineers. Meeting at the Royal Society of Arts, John Adam Street, London, W.C.2, at 7 p.m. "Some Problems in the Design of Large Rocket-Engine Test Beds," by R. H. B. Forster, B.Sc., M.I.Mech.E., chief engineer, and L. Breen, senior engineer, British Oxygen Wimpey, Ltd.

Feb. 24.

Meeting of the Institution of Civil Engineers (East Midlands Association) at Herbert Schofield Building, Loughborough at 6.15 p.m. "The Preparation of Drawings and Contract Documents for Major Road Works, including Aerial Surveying," by R. Truswell, B.Sc., and G. Farrimond, B.Sc.

March 4.

Institution of Highway Engineers. Meeting at the Institution of Structural Engineers, 11 Upper Belgrave Street, London, S.W.1, at 5.30 p.m. "New Methods of Automatic Traffic Control," by E. Bailey and E. Thorpe, Automatic Telephone and Electric Co., Ltd.

£2M. CHIPBOARD FACTORY PLANNED

During the next two to three years the British Match Corporation will invest approximately £2,500,000 in the wood chipboard industry through its subsidiary, The Airscrew Company and Jicwood, Ltd., Weybridge, Surrey.

The first move in the new expansion will be to set aside £2m. to build and equip a new airscrew factory for the manufacture of Weyroc. The final decision on the location of the new factory has not yet been made, but one possible site is close to Airscrew's present factory at Annan, Dumfriesshire.

It is estimated that the factory will take about 18 months to erect, and it is hoped that the foundations will be laid during 1960.

DUBLIN LIBRARY DESIGN COMPETITION

An open international competition is to be held for the design of a new library building for Trinity College, Dublin.

Specifications are now being drawn up by the panel of assessors, which comprises Mr. Raymond McGraith, principal architect of the office of public works in Dublin; Sir Hugh Casson; Signor Franco Albini, professor of architecture at Venice; Mr. Keyes de Witt Metcalfe, an American library consultant; and Lord Rosse, chairman of the Georgian Group and Vice-Chancellor of the University.

The winning architect is expected to be appointed before the end of the year. First prize award will be £1,500, second £750 and third £500.

ALCAN HYDRO-ELECTRIC PROJECT

To the Editor of "The Contract Journal."

Sir,—The article describing Alcan's hydro-electric power project in your issue of January 7, 1960, has been read with interest.

The description of the method of making the connection between the intake supply tunnel and reservoir, recalls similar methods adopted by this company on two occasions, the first 30 years ago when the main supply tunnel for the Lochaber Power Development was connected to Loch Treig. More recently, in 1950, this method was used to connect the supply tunnel for the Grudie Bridge hydro-electric power station to Loch Fannich.

Yours, etc.,
F. W. ADAMS,
Assistant Secretary.

Balfour, Beatty and Co., Ltd.,
London, E.C.4.

Trade Section

CONCRETE AGGREGATE GIVES HIGH STRENGTH IN 24 HOURS

HIGH qualities of density, hardness and strength in 24 hours are claimed for concrete made with Ciment Fondu High Alumina cement and a new synthetic aggregate called Alag.

Lafarge Aluminous Cement Co., Ltd., 73 Brook Street, London, W.1, are the producers of the aggregate, which resembles crushed basalt and is dense, non-absorbent and has a hardness of 7 to 7.5 mohs which will cut glass. It is also said to be able to withstand temperatures of up to 1,200 deg. C.

Ciment Fondu/Alag concrete has a cold strength being equal to almost twice that of normal Ciment Fondu concrete. After 24 hours the compressive strength is 13,000 p.s.i., compared with 7,500 p.s.i. for normal Ciment Fondu concrete; after seven days Ciment Fondu/Alag concrete has a compressive strength of 16,000 p.s.i.

The density of Ciment Fondu/Alag concrete is approximately 170 lb./cu. ft. air-dried. Thermal conductivity and strength are both said to be greater than the corresponding properties of Ciment Fondu/firebrick concrete, while the expansion characteristics are similar.

At elevated temperatures the amount of water which combines with Ciment Fondu and Alag necessitates about 1½ to 2 times more water for the resultant mix than is used with ordinary Portland cement. This high content of combined water together with the high density make the product suitable for concrete shields in atomic energy plants.

Alag is supplied in two sizes: coarse ¼in. to 3/16in., and fines 3/16in. to dust.

PUBLIC WORKS EXHIBITION ORGANISERS

The Municipal Journal, Ltd., has acquired all shares of Municipal Agency, Ltd., organisers of the Public Works and Municipal Services Exhibition, held biennially at Olympia.

No changes have been made in the management of Municipal Agency, Ltd., whose managing director is Mrs. F. May.

REDESIGNED CELLAR DRAINAGE SUMP PUMP

AN entirely redesigned cellar drainage sump pump, suitable for various purposes in industry and fully automatic in operation, has been introduced by James Beresford and Son, Ltd., Ace Works, Kitts Green, Birmingham, 33.

The pump is of single-stage volute, centrifugal type built into the large-diameter base. Suction ports are of large area arranged to ensure the least possible interference through clogging by paper, etc. The radial shrouded type impeller of corrosion resistant brass is designed to prevent build-up of sediment within the pump.

Electric motors are available for use on single or three phase, 50 cycles A.C. supply and are controlled by a mercury operated switch attached to the motor. To this is connected a copper float suspended on a cable fitted with adjustable stop and balance weights which can be regulated to start and stop the motor automatically at the desired levels.

There are two sizes of pump available. The smaller unit, 1-V, is driven by a ½-h.p. motor and has a capacity range of 350 to 1,450 gallons per hour and head range of 45ft. to 10ft. The price is £41 17s. A larger 2-V model is driven by a 1-h.p. motor and its capacity ranges from 1,200 to 3,400 g.p.h. at heads from 45ft. to 10ft. The price of this unit is £51 14s.

SAFETY DESIGNED STEEL TRESTLES

Adjustable steel trestles for working platforms, designed with accident prevention in mind, are being marketed by General Trade Equipment, Ltd., 89-92 Seymour Place, London, W.2.

Electrically welded throughout, the trestles stack flat in multiples. The main uprights are of 1¼in. diameter steel tubing, with 1in. extending tubes and ¾in. triangular legs, and the top crossbar is available in 1½in. diameter tube or 2in. by 1½in. angle. Special locating lugs are fitted to give stability.

The trestles are marketed in 11 sizes, ranging from a 19in. by 33in. extension with three boards, to a 4½ft. by 8ft. extension with five boards.

AUTOMATIC PRESSURE WATER SYSTEM

JAMES BERESFORD AND SON, LTD., Ace Works, Kitts Green, Birmingham, 33, have introduced a new automatic pressure water system for premises without mains water supply.

The system comprises an electrically driven single-stage centrifugal pump mounted on a pressure/water storage tank on which is also fitted the regulating equipment, including an air volume control and pressure switch. This unit can be installed close to the water source or in the house, and arranged for shallow or deep-well operation.

The pump fitted to the shallow well unit will raise water a maximum of 20ft. and deliver this into the storage tank. The tank contains a cushion of air which is automatically maintained by the air volume control operating in conjunction with the pump. As water is drawn off anywhere in the house, the pressure and water level in the tank drops until a point is reached at which the pressure switch operates automatically to start the motor. When the tank is replenished, the switch again operates and cuts out the motor.

B.S.A. SMALL ENGINE RANGE

A new range of small petrol engines suitable for pumps, charging sets and similar equipment has been developed by the Power Unit Division of B.S.A. Motor Cycles, Ltd., Birmingham, 11. Known as the Series 90, it consists of a basic engine with a number of interchangeable crankcase end-covers. These equip each model for a variety of operations and enable the unit to work with its crankshaft in horizontal or vertical positions.

An "over-square," air-cooled four-stroke of 87 c.c. capacity, the basic engine weighs only 23lb., and develops nearly 2 b.h.p. It has a cast-iron crankcase and barrel, with a detachable aluminium cylinder head. The makers state that after extensive testing, cast-iron was chosen for the crankcase in preference to alloy designs, because it was felt that its rigidity and stability in all conditions were more important than the weight disadvantage The extensive use of thin sections in the main body casing has minimised the extra weight.

MUIR-HILL DUMPER WITH NEW CONCRETE-CARRYING BODY

A NEW and improved concrete-carrying body for the standard Muir-Hill 10B hydraulic dumper is announced by E. Boydell and Co., Ltd., Manchester.

It has a liquid capacity of 2 cu. yd. when operating on a 1 in 10 gradient and, for this reason, the unit is stated to be ideal for use in conjunction with 1yd. continuous mixers.

The machine is arranged to provide a tipping height of 4ft. 6in. under the body lip—a height suitable for discharge into standard 1yd. and 2yd. conrcete Tremie buckets and concrete pump hoppers. The tipping angle between the floor and the body mouth at maximum tip is 56 degrees.

A vibrator unit, supplied as an extra, may be fitted to the underside of the body mouth to facilitate slow discharge with the body partially tipped. For concrete placing and similar operations, a chute may be fitted to allow the concrete to be discharged at ground level.

The dumper with new concrete-carrying body

MACHINE CUTS WOOD AND PLASTICS

C. D. Monninger, Ltd., Overbury Road, London, N.15, have introduced a new cutting machine, known as the Monosaw, which will handle large sheets of laminated board, woodchip board and plastic-faced materials.

The standard machine has a horizontal traverse of 10ft. Complete with motor, starter, traverse arm, clamping attachment and saw guard, it costs £92 10s. The saw unit has a 1½-h.p. motor and is mounted on parallel horizontal tubular traverse rails with three point ball bearings.

ACROW ACQUIRE THOS. STOREY

The Acrow Group have acquired the whole of the issued capital of Thomas Storey (Engineers), Ltd., the Bailey bridging manufacturers. The 450,000 £1 shares in Storey have been acquired for 220,305 Acrow "A" shares, which puts a value on the company of about £700,000.

Storey's works cover some 22 acres, with over 250,000 sq. ft. of factory space and at present they have some 800 employees. Mr. Thomas Storey and Major V. B. J. Seely will join the board of Acrow.

Have you completed and posted your Readership Survey postcard?

Trade Section

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

Smith and Rodgers (Builders and Engineers), Ltd. £1,000. Directors to be appointed by subscribers. Subscribers: John G. E. French, 14 Harewood Hill, Theydon Bois, Essex (cashier); Donald J. O'Regan, 837 Harrow Road, Wembley, Middx. (clerk).

Blair and Cramer, Ltd., 23 The Pavement, Clapham Common, London, S.W.4, builders. £1,000. Directors: John C. Cramer, 2 Camgate Mansions, Walworth Road, London, S.E.1; Mrs. Gladys J. Cubitt, 62 Drewstead Road, Streatham, London, S.W.16.

Millars' (Italy), Ltd., Pinners Hall, Great Winchester Street, London, E.C.2, hydraulic, civil, mechanical and electrical engineers. £100. Directors to be appointed by subscribers. Subscribers: Eric W. Taverner, 40 Lovelace Drive, Pyrford, Woking, Surrey; Wm. G. F. Ballantyne, Warren Grange, 29 Sandy Lane, Cheam, Surrey.

H. G. Shearman and Son, Ltd., Church Road, Ramsden Heath, Essex, builders. £100. Directors: Henry W. G. Shearman, Como, Church Road, Ramsden Heath; Christopher Shearman, Como, Church Road, Ramsden Heath.

Tom Smith (Waterloo), Ltd., building and general contractors. £1,000. Directors not named. Subscribers: Thomas Smith and Mrs. Margaret L. Smith, 42 Buttermere Gardens, Crosby, Liverpool, 23.

Modern Building Contractors, Ltd. £100. Directors: Costas Georgiou, 58 Whymark Avenue, London, N.22; Demetrios Lamprou, 14 Bowes Road, London, N.13.

Cameo Construction Co., Ltd., contractors plant. £500. Directors: Anthony G. Sharpe and Marion E. Sharpe, 1 Bay Road, Newton, Porthcawl, Glam.

Decorbuild, Ltd., 10 Dyers Buildings, Holborn, London, E.C.1, builders. £100. Director. Jean McDonald, 37 Avonmore Road, London, W.14.

A. V. Sworn (Bracknell), Ltd., North Road, Chavey Down, Ascot, builders. £100. Directors: Albert V. Sworn and Mrs. Violet Sworn, 30 Chavey Down Road, Bracknell.

E. and A. G. Holland (Builders), Ltd. £100. Directors: Ernest Holland and Mrs. A. G. Holland, 44 Roseacre, Blackpool.

Material Handling Devices (Bradford), Ltd., 62 Great Horton Road, Bradford, 7. £2,000. Directors not named. Subscribers: William A. Sugden, Britannia House, Broadway, Bradford, 1 (solicitor); Anthony M. Hall, Woodside, Wood Lane, Hipperholme, near Halifax (solicitor).

J. Parsons and Sons, Ltd., 57-58 North Street, Brighton, 1, builders. £1,000. Directors: John H. Parsons and Frances E. Parsons, 41 Goldstone Crescent, Hove, 4; George H. Yarnell, Flat 3, 18 Second Avenue, Hove, 3.

Seward Constructions, Ltd., builders. £100. Directors not named. Subscribers: Donald L. Seward and Mrs. Joyce D. Seward, Andover House, Andover Road, Newbury, Berks.

South Benfleet Plant Hire Co., Ltd., 201 High Street, South Benfleet, Essex. £500. Directors: Peter M. Wilson, Oaken Gates, Underhill Road, South Benfleet (chairman); Douglas E. Wilson, 76 Grove Road, Underhill Road, South Benfleet.

Plant Hire (Stafford), Ltd., Paramount House, Market Square, Stafford. £500. Directors: George Perkins, 74 Sidney Avenue, Stafford; Trevor L. Y. Perkins, The Spindles, Bawnmore Road, Old Bilton, Rugby.

Vincent Dignan (Builders), Ltd. £10,000. Permanent directors: Vincent Dignan and Mrs. Alice Dignan, 74 Congleton Road, Gawsworth, Macclesfield, Ches.; Mrs. Joan V. Saint, 11 Earl Street, Botley Road, Oxford.

A. Drake and Son, Ltd., 46a Lea Road, Waltham Abbey, Essex, builders. £1,000. Permanent directors: Arthur Drake, 46a Lea Road, Waltham Abbey, Essex; Henry H. Nutt, 111 Chippingfield, Harlow, Essex.

Donald Gray (Builders), Ltd. £5,000. Directors: Donald W. T. Gray and Mrs. Edith J. M. Gray, 5 Albion Road, Selsey, Sussex.

Highway Contractors, Ltd., Central Chambers, Red Lion Square, Heanor, Derbys., plant hire contractors. £10,000. Directors: Edward Gibbons and Daniel Shanahan, 19 Handy Barn, Marlpool, Heanor, Derbys.

Greystone Construction Co., Ltd., Rawdon House, Rawdon Terrace, Ashby-de-la-Zouch, Leics., civil engineers, etc. £1,000. Directors: Geoffrey Murkett, 14 Brizlincote Lane, Burton-on-Trent; Colin W. Farrow, Cornerways, Wellesley Road, Ashby-de-la-Zouch.

Compound Services, Ltd., Bucklesbury House, Bucklesbury, London, E.C.4, dealers in road-making and building materials, etc. £5,000. Directors: William Brett, 93 Sea Road, Westgate-on-Sea; Herbert S. Brett, Berwyn, 43 Ethelbert Road, Canterbury; John S. Brett, and Ernest J. Kinnear.

Hounslow Builders, Ltd., 542 London Road, Isleworth, Middx. £1,000. Directors: Allan V. Painter, 54 Inwood Avenue, Hounslow, Middx.; Barry R. Hazell, 46 St. Marys Avenue, Osterley, Isleworth, Middx.; Ronald W. Coker, address not stated.

Hudsons Plant Hire, Ltd., Memorial Cottage, Kelmscott, near Lechlade, Glos. £5,000. Directors: Charles E. R. Hudson and John E. Hudson, Memorial Cottage, Kelmscott, near Lechlade, Glos.

W. P. Builders, Ltd. £100. Directors: To be appointed by subscribers. Subscribers: J. Mayhew-Sanders and P. H. Clark, 31 St. James's Place, S.W.1.

J. Enticott and Son (Builders), Ltd. £100. Directors: Peter J. Enticott and Margaret A. Enticott, 5 Mead Road, Dartford, Kent.

Nathan Brown Contractors, Ltd., Shapley Industrial Estate, Shapley Road, Audenshaw, builders. £100. Directors: Nathan Brown and Mrs. Irene Brown, Dale Brow Chase, Prestbury, Ches.

An order for 40 units of the Shawnee-Poole system of transport, at an approximate cost of £80,000, has been placed with Steel Fabricators (Overseas), Ltd., by AB Baltzar Klingberg, of Stockholm, whose managing director, Mr. Baltzar Klingberg, is seen here (left) with Mr. E. T. Hardy, sales director of Steel Fabricators (Overseas), Ltd.

TRADE NEWS IN BRIEF

Mercantile Credit Co., Ltd., announce that the address of their Lincoln Branch is now N.E.M. House, 15 Newland, Lincoln. (Telephone: Lincoln 22343/4 and 26593.)

Firth Cleveland Finance, Ltd., have opened a branch office in the Scottish Widows' Fund Building, 28 Baldwin Street, Bristol, 1. (Telephone: Bristol 25013.)

Pantak, Ltd., Vale Road, Windsor, Berks., have recently concluded an agreement with Usines Balteau of Liege for the marketing in the U.K. of two ranges of lightweight portable industrial X-ray equipment.

Industrial Pumps, Ltd., Nottingham, sole concessionaires in the United Kingdom for Flygt Pumps, have opened a new branch office and depot at 62a Station Road, King's Langley, Herts. (telephone King's Langley 4465). Mr. John Davidson has been appointed manager of the depot.

"Asbestos and Asbestos-Cement Products" is the title of a new technical information booklet received from **Turners Asbestos Cement Co., Ltd.,** Trafford Park, Manchester 17.

Vulcascot (Great Britain), Ltd., 87-89 Abbey Road, London, N.W.8, have published a new leaflet on the Auger safety ladder feet.

Blakeway (Contractors), Ltd., have changed their address to Saltwells Road, Netherton, near Dudley, Worcs.

Hattersley (Ormskirk), Ltd., have appointed **Markland Scowcroft, Ltd.,** Bromley Cross, near Bolton, stockists of their range of Hattersley gun-metal and cast-iron valves which includes their newly introduced range of gun-metal radiator valves.

A new service depot has been opened by **Yale and Towne Manufacturing Co.** at Ripple Road South, Barking, Essex (Tel.: Dominion 5945).

"A Guide to Painting Asbestos-cement" is the subject of a new booklet received from **Turners Asbestos Cement Co., Ltd.,** Trafford Park, Manchester, 17.

Tilbury Contracting and Dredging Co., Ltd., announce that as a matter of policy, they are resuming direct management of their Kentish Ragstone quarry interests in the Maidstone area and, in consequence, have put their subsidiary company, Tilbury Quarries, Ltd., into voluntary liquidation.

Air Pumps, Ltd., have announced the appointment of the Building Equipment Division of **Scaffolding (Great Britain), Ltd.,** as sole selling agents for the entire range of A.P. air compressors in Kent, Surrey and Sussex.

West Bros. (Battersea), Ltd., who have been acquired by **Haine and Corry, Ltd.,** Gloucester, will continue to trade under their own name, but the directors will be Mr. L. N. Haine, Mr. E. A. Osborne and Mr. L. W. Huggins.

"Tenspan" industrial structures are the subject of a new publication issued by **J. E. Lesser and Sons, Ltd.,** Green Lane, Hounslow, Middx.

E. and G. Range, Ltd., formerly of Mile End Road, London, E.1, announce that their new address is Railway Coal Depot, Geffrye Street, Shoreditch, E.2. Tel: Shoreditch 9557-8.

Ruddock and Meighan, Ltd., have transferred their offices and stores from Rockley Lane to Barugh Green, Barnsley. Tel: Barnsley 5861-2.

The address of the head office organisation of **Terrapin, Ltd.,** is now Haddon House, 2-4 Fitzroy Street, London, W.1. Tel: Langham 0611.

Chamberlain Plant, Ltd., have been appointed agents for Thwaites dumpers, a full range of which is available from the showrooms at Crown Works, Southbury Road, Enfield, Middx.

COMPANY RESULTS

Dorman Long and Co., Ltd.—Group profit for the year ended Sept. 30, 1959, £5,952,619 (£6,104,807). Net profit after tax, etc., £3,087,929 (£2,658,733). Final ordinary dividend 8 per cent. making a total of 12 per cent. A one-for-two scrip issue is proposed and a 10 per cent. dividend on the increased capital for the current year is forecast.

R. A. Lister and Co., Ltd.—Profit after tax for the year ended Sept. 30, 1959, £595,880 (£586,852). Ordinary dividend 14 per cent. (12½ per cent.).

Broom and Wade, Ltd.—Group profit for the year ended September 30, 1959, £851,858 (£569,434). Balance after taxation, £435,923 (£263,175). Recommended final ordinary dividend 20 per cent., making a total of 22½ per cent. (15 per cent.).

Aveling-Barford, Ltd.—Group trading profit for the year ended Sept. 30, 1959, £487,970 (£541,999). Balance after tax, £253,247 (£216,237). Ordinary dividend 12½ per cent. (same).

Current Constructional Activities

PROJECTS • CONTRACTS • AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING

(See also Housing Schemes)

Acton, Middx.—Co. E.C. recommended C.C. to approve extensions to the Elms Secondary School. Estimated cost £76,000.

Aireborough, Yorks.—West Riding C.C. recommended to approve provision of a rural studies unit at Benton Park Secondary School. Estimated cost £4,520.

Annan, Dumfries.—C.C. have approved in principle plans for a chipboard factory at Raggetshaws, Creca, for Airscrew Co. and Jicwood, Ltd., Weybridge, Surrey.

Annat, Inverness-shire.—C.C. have approved in principle a proposal by Scottish Pulp (Development), Ltd., Gateway House, Watling Street, London, E.C.4, to erect a wood pulp mill occupying about 200 acres. Estimated cost between £8m. and £12m.

Ashton-in-Makerfield, Lancs.—C.C. have approved the erection of additional classrooms at grammar school. Estimated cost £4,284.

Ashton-under-Lyne, Lancs. — B.C. recommended to approve proposals for college of further education, phase III, Beaufort Road/Stamford Street; extension to ambulance station, Lord Street and alteration to kitchen and replacement of cloaks, Waterloo County Junior School, for Lancs. C.C.

Aylesbury, Berks.—R.D.C. have submitted an outline planning application to the Town Planning and Development Committee for the erection of public offices at the site of Holy Trinity Vicarage in Walton Street, opposite Walton Church.

Ayrshire. — Co. E.C. propose the following in their new schools building programme for the next three years: Craigie New Primary School, Ayr, estimated cost £135,000 (work to start July, 1961); new Technical College, Ayr, £500,000 (March, 1961); extension of Greenmill Primary to form a Senior Secondary at Cumnock Academy, £150,000 (March, 1962); new Senior Secondary Comprehensive at Mainholm, Ayr, £250,000 (Aug., 1961); new two-stream Primary School at Girvan, £140,000 (Sept., 1961); extension and remodelling new Cumnock Junior Secondary, £100,000 (March, 1963); replacement of Junior School and huts at Catrine Junior Secondary School, £150,000 (April, 1963); extension of Carrick Academy, Maybole, £150,000 (April, 1963).

Aysgarth, Yorks.—Yorkshire Dales National Park Committee have approved the construction of a car park with public conveniences at Aysgarth Falls. Estimated cost £3,475.

Bacup, Lancs.—Local Planning Committee have approved the erection of six garages at Sowclough Road, Stacksteads and storage accommodation at Union Square for the open market stallholders.

Barnsley, Yorks.—E.C. have approved plans for secondary modern school on the St. Helen's estate for inclusion in the 1960-61 programme.

Batley, Yorks.—West Riding C.C. recommended to approve the conversion of classrooms B 8/9 at the Batley premises of Dewsbury and Batley Technical and Art College into canteen and common room. Estimated cost £700.

C.C. recommended to approve adaptations to 13 Hanover Street for dental clinic purposes. Estimated cost £2,600.

Berkshire. — E.C. have prepared plans for the first instalment of Furze Platt Modern Secondary School and Furze Platt Junior School. Estimated cost £139,407 and £62,871, respectively.

Beverley, Yorks.—Leeds Regional Hospital Board have approved in principle scheme for providing a new twin operating theatre suite at Westwood Hospital. Estimated cost £55,000.

Biggleswade, Beds.—U.D.C. recommended to approve the proposal for a swimming pool at Fairfield.

Bingley, Yorks.—West Riding C.C. recommended to approve extensions at Training College. Estimated cost £182,000.

Birkenshaw, Yorks. — West Riding C.C. recommended to approve provision of new County Fire Service Headquarters and Training School at Oakroyd Hall by way of adaptation of the existing hall and erection of new buildings. Scheme to be carried out in two stages, total cost £282,550; also to approve adaptations and repairs to enable the semi-underground Civil Defence control room at Oakroyd Hall to be used for the fire control establishment, £6,650.

Birmingham.—Lanchester and Lodge, 10 Woburn Square, London, W.C.1, are the architects for extensions to the Queen Elizabeth Hospital, for the Board of the United Birmingham Hospitals. Scheme includes a six-storey wing for a radiotherapy department, extension of the clinical research block and the erection of a hall of residence for medical students and research workers. Estimated cost £1,100,000.

Baths Committee have approved plans for a swimming bath at Station Road, Stechford. Estimated cost £300,000.

Regional Hospital Board recommended to approve in principle, schemes for the provision of a diagnostic and treatment unit at All Saints' Hospital, Winson Green, estimated cost £447,500; central sterilising unit at Little Bromwich General Hospital, £4,940; twin operating theatre suite and up-grading of the existing theatre at Selly Oak Hospital, £113,250; dispensary and pathological department at Yardley Green Hospital, £14,975.

Bourne, Lincs.—U.D.C. have approved plans for the erection of a range of workshops covering 7,000 sq. ft. fronting Spalding Road, for Rubery Owen and Co., Ltd., 11 Greenfield Crescent, Edgbaston, Birmingham, 15; extension to factory at Spalding Road, for W. Pinder and Son.

Bracknell, Berks. — M.E. have approved a scheme for the erection of the proposed Bullbrook County Infants' School, for Co. E.C. Estimated cost £42,279.

Bradford, Yorks.—City Council recommended to approve redevelopment of John Street Market in two phases, the first phase to consist of the construction of a three-tier car park for 360 cars and a roof of light construction over the market, and the second phase to consist of the construction of shops and offices on the Westgate and John Street sides of the market and the interior planning and equipment of the market; also that phase one of the development be proceeded with at an estimated cost of £232,000 and that the City Architect be instructed to prepare a scheme and estimate for the execution of phase two of the redevelopment.

City Council recommended to approve revised scheme for provision of a health service clinic and three consulting suites on the Holme Wood housing estate, estimated cost £35,150; and erection of new training tower at Central Fire Station, £850.

City Council recommended to approve scheme for adaptation of Glenholme, Pasture Lane, Clayton, as a hostel for women, estimated cost £19,675, and provision of temporary accommodation for nine lecture rooms and a tutorial room on the roof of Technical College fronting Carlton Street, £25,000. City Council recommended to approve scheme for erection of public conveniences at Kipping Lane, Thornton, estimated cost £4,900; remodelling of existing public conveniences in Keighley Road and the adjoining public conveniences in Lister Park, £7,000. City Engineer to be instructed to prepare scheme for construction of underground public conveniences in Forster Square.

Brechin, Angus.—Dean of Guild Court have approved the following: Demolition of the Crown Hotel, St. David Street, and the erection of a shop and offices on the site, for F. W. Woolworth and Co., Ltd., 242 Marylebone Road, London, N.W.1, estimated cost £30,000; extensions to bowling green pavilion at the public park, for B.C., £1,950.

Bridlington, Yorks.—East Riding E.C. are to purchase land at Sewerby Heads for site for secondary girls' school.

Bristol.—Planning and Public Works Committee have approved the erection of public conveniences at Redcatch Park and Hillfields recreation ground. Estimated cost £2,600 and £2,800 respectively.

Health Committee have approved scheme for an extension to the Mary Hennessy Health Clinic. Estimated cost £15,000.

Burley-in-Wharfedale, Yorks. — Leeds Regional Hospital Board have approved provision of new occupational therapy accommodation and facilities at Scalebor Park Hospital. Estimated cost £35,829.

Consett, Dur.—Ministry have approved the erection of 11 garages on Gloucester Road housing site, for U.D.C. Estimated cost £1,277.

Chesterfield, Derbys.—B.C. have approved plans for the construction of a multi-purpose swimming bath. Estimated cost £150,000.

Croydon, Surrey.—E.C. propose the erection of a new primary school at Park Hill estate.

Darton, Yorks.—West Riding C.C. recommended to approve in principle acquisition of land at Barugh Green for old people's home.

Denholme, Yorks. — U.D.C. to apply for sanction to borrow £602 for erection of five garages in Mary Street.

Dewsbury, Yorks.—West Riding C.C. recommended to approve in principle plans for erection of a new technical college, estimated at £500,000, with an application to the M.E. for inclusion of stage I in the 1962-63 building programme.

Dodworth, Yorks. — West Riding C.C. recommended to approve scheme for reinstatement of damaged buildings at Keresforth Road Secondary School. Estimated cost £7,343.

Dover, Kent.—Town Planning Committee have approved outline plans for the erection of a factory in Lorne Road, for E. M. Gheysens, Ltd., Buckland Bridge.

Downpatrick, Down.—R.D.C. propose to erect sheds at various houses. Estimated cost £11,500.

Dublin, Eire.—Trinity College Authority are organising an international competition to select an architect for the proposed extension to the library. Estimated cost £500,000.

Dumfriesshire.—C.C. have approved an extension of Council offices at Dumfries. Estimated cost £200,000.

Ealing, Middx.—B.C. recommended to seek C.C. approval to reconstruction and drainage of Brentfield. Estimated cost £6,310.

East Sussex.—E.C. recommended to approve plans for the construction of an art room, science laboratory, preparation room and stores at Bexhill Girls' Grammar School and the first instalment of the proposed primary school at Little Common. Estimated cost £8,555 and £21,230, respectively.

Edenbridge, Kent.—L.C.C. approved the erection of unit factories, totalling about 35,000 sq. ft., at Edenbridge. Estimated cost £88,500.

Exeter.—Bills of quantities are being prepared for the erection of a junior block at St. Loyes College for the Training and Re-habilitation of the Disabled. Lucas, Roberts and Brown, Barnfield Hill, Exeter, are the architects and Banks, Wood and Thompson, 11 Richmond Road, Exeter, the quantity surveyors for the scheme. Estimated cost £150,000.

Fareham, Hants.—U.D.C. to erect 27 garages at Bellfield housing estate, Titchfield. Estimated cost £3,235.

Farnham, Surrey.—C.C. recommended to approve sketch plans for extensions to provide additional studio accommodation at School of Art. Estimated cost £11,482.

Fulham.—B.C. recommended to approve provision of a branch library in the wing of a block of flats at Clem Atlee Court. Estimated total cost £6,208.

Glasgow.—A. Graham Henderson, of Keppie, Henderson and Gleave, Woodside Place, Glasgow, is the architect for an extension to be carried out at the Glasgow School of Art. Estimated cost £170,000.

Gosport, Hants.—B.C. recommended to instruct Borough Engineer to prepare detailed plans for additional accommodation at the Town Hall. Estimated cost £200,000.

Hackney.—L.C.C. approved an estimate of £16,666 for the provision of additional accommodation at Edith Cavell Secondary School.

Harrogate, Yorks.—West Riding E.C. to spend £15,000 on improvements at Grove Road County Primary School.

Harrogate, Yorks.—B.C. recommended to approve outline application for erection of building for storage, offices and dispatch with high level linkway at back of James Street, for Marshall and Snellgrove, Ltd.; erection of offices, cloakrooms and factory extension at Grove Park Terrace, for J. Coombes and Co., Ltd.; erection of a factory at Camwal Road, for Richard Craven and Co., Ltd., 17 Princess Street.

Harwich, Essex.—E.C. have approved the inclusion of a general purpose room for Harwich Further Education Centre in the minor building programme. Estimated cost £1,750.

Hawick, Roxburghs.—Dean of Guild Court have approved the erection of a factory, for Scoon and Hood, Ltd., Teviotdale Mills, Hawick, Estimated cost £18,000.

Huddersfield, Yorks.—B.C. to commence work later this year on first stage of a £1½m. civic centre on the Hight Street-Upperhead Row site.

Hull.—Libraries Committee to prepare plans for permanent branch library on the Greatfield estate.

Ilkley, Yorks.—West Riding C.C. recommended to approve scheme for sports pavilion to be erected on detached playing field for the Ilkley Grammar and Secondary School. Estimated cost £10,000.

Isle of Ely.—C.C. recommended to approve the following minor school projects: Isle of Ely College, extensions, estimated cost £20,000: March Burrowmoor Junior School, new lavatory block, £4,800; building of housing accommodation for teachers, £7,500; Chatteris Burnsfield Infants' School, medical inspection room and store, £700; March Dartford Infants' School, passageway and two lavatories, £327; March Hereward School, roofing of lavatories, £500; school meals projects, £1,500.

Isle of Man.—Tynwald recommended to approve scheme for the reconstruction of the kitchens and staff dining rooms at Ballamona Hospital. Estimated cost £21,000.

Kensington.—L.C.C. approved the construction and equipment of a hostel for women at Fenelon Place. Estimated cost £158,702.

Kesteven.—Standing Joint Committee have approved the erection of sub-divisional police headquarters at West Street, Bourne. Estimated cost £9,500.

Kidderminster, Worcs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for builders' work associated with improved electrical services at the General Hospital. Estimated cost £1,250.

Kirkburton, Yorks.—West Riding C.C. recommended to approve scheme for improvements to the house at Farnley Tyas C.E. (Controlled) School. Estimated cost £750.

Kirkcaldy, Fifes.—Co. E.C. have approved proposed alterations and extensions at Kirkcaldy High School.

Lambeth.—L.C.C. to carry out improvements at Priory Secondary School. Estimated cost £17,300.

Leamington Spa, War.—B.C. considering scheme for the erection of a joint building as headquarters for Leamington Boys' Club and as a community hall serving the housing estates in the south of the borough.

Leeds.—City Council propose developments at the blind workshop in Roundhay Road and at Spring Vale Hostel, estimated cost £8,000 and £8,500, respectively.

Plans are being prepared for alterations to Emmanuel Church in University Road. Estimated cost £4,000.

Baths Committee have made provision in the 1960-61 estimates for redecoration of Victoria Hall. Estimated cost £4,700.

Regional Hospital Board have approved modernisation of Menston Hospital. Estimated cost £1,030,000. First stage of the modernisation includes: Nurses Training School, £20,000; treatment unit, £15,000; wards, £80,000; conversion of wards 1, 2 and 7, £60,000. The later stage will include: Modernisation of wards, £450,000; engineering work, £250,000; builders' work, £50,000; occupational therapy and social centre, £100,000; main connecting corridors, £5,000.

Leigh, Lancs.—B.C. have approved in principle scheme for dressing accommodation at Marsh playing fields, Wigan Road. Estimated cost £7,000.

Lichfield, Staffs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the provision of additional maternity accommodation at Victoria Hospital. Estimated cost £26,000.

Liverpool.—W. L. Lowe, Ferguson and Partners, 3 Eberle Street, are the architects for erection of a multi-storey car park with frontages to Hanover Street and Seel Street, for the Buckfast Industrial Finance Co., Ltd., London.

Maidenhead, Berks.—General Purposes Committee have approved the re-siting of the open air market to the adjoining Providence Place site.

Maltby, Yorks.—D. Byford and Co., Ltd., are to carry out extensions.

Malvern, Worcs.—Birmingham Regional Hospital Board recommended to approve revised scheme for the adaptation of St. Wulstan's Hospital. Estimated cost £28,000.

Meltham, Yorks.—West Riding C.C. recommended to approve adaptations, repairs and renovations at the Carlile Institute for clinic accommodation. Estimated cost £2,365.

Middlesbrough.—T. Barrett, Sons and Partners, 84 Grange Road, have been appointed quantity surveyors by Newcastle Regional Hospital Board, for a department of physical medicine at General Hospital. P. H. Knighton, chief architect.

Morley, Yorks.—Corporation's Development Committee have approved in principle scheme for provision of market hall, shops and bus station in a central area bounded by Queen Street, Wesley Street, Cross Street and Fountain Street.

Morley, Yorks.—West Riding C.C. recommended to approve the erection of a three-bay fire station. Estimated cost £32,342.

Norwich.—Town Planning Committee to submit to the Royal Fine Art Commission for approval, scheme for a central library at Bethel Street.

Nuneaton, War.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the provision of an out-patients' department in the old part III dining room at the George Eliot Hospital. Estimated cost £15,050.

Ormskirk, Lancs.—Co. E.C. have approved the erection of the Aintree Holy Rosary R.C. Aided Two Form Infants' School. Estimated cost £42,350.

Orrell, Lancs.—Co. E.C. propose to build a kitchen and assembly hall at Holgate County School. Estimated cost £20,725.

Reading, Berks.—Oxford Regional Hospital Board have approved the first stage of the development scheme for the Royal Berkshire Hospital during 1961-62. Estimated cost £83,000.

Rochdale, Lancs.—Borough Surveyor recommended to prepare detailed plans for redevelopment of the area bounded by Yorkshire Street, the inner relief road (St. Mary's Gate), Toad Lane and Newgate, for temporary shop accommodation.

Ross-on-Wye, Heres.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for builders' work associated with the re-wiring and up-grading of the electrical and mechanical services at Alton Street Hospital. Estimated cost £16,000.

Rosyth, Fifes.—Admiralty are to erect a new headquarters block at Rosyth Dockyard. Estimated cost £200,000.

Rotherham, Yorks.—West Riding C.C. recommended to approve revised layout plan for erection of a building in the grounds of Thorn Bank, Moorgate, for divisional offices. Estimated cost £31,500.

St. Helens, Lancs.—Building Department preparing plans for conversion of premises in Haydock Street into ambulance headquarters.

B.C. to apply for sanction to borrow £12,300 for maternity child welfare and school health service clinic at Ashtons Green. Working drawings to be prepared.

M.E. have approved scheme for provision of a six-form R.C. school at St. Helens, estimated cost £225,000, and an R.C. Secondary School at Folds Lane, Haresfinch, £145,000.

Saddleworth, Yorks.—West Riding C.C. recommended to approve scheme for conversion of 43-45 High Street, Uppermill, into central library. Estimated cost £2,053.

Selby, Yorks.—West Riding C.C. recommended to approve the erection of a child welfare clinic at Brook Lodge. Estimated cost £16,150.

Shrewsbury, Salop.—Co. E.C. have approved the first phase of an extension to the Farm Institute, Walford, including residential accommodation, estimated cost £23,700; in principle the rebuilding of the Wyle Cop Youth Club, £20,000.

Shrewsbury, Salop.—Birmingham Regional Hospital Board recommended to approve in principles scheme for the provision of a bridge to connect the pathological laboratory with the out-patients' department at the Royal Salop Hospital. Estimated cost £2,500.

Shropshire.—E.C. have approved a proposal for the provision of a secondary modern boarding school. Estimated cost £295,000.

Slough, Bucks.—Ministry have approved the erection of a workshop (2,400 sq. ft.) at Australia Road, for Electrogenerators, Ltd.

South Kirkby, Yorks.—West Riding C.C. recommended to approve provision of two temporary classrooms, etc., in Spooner construction at Moor Thorpe R.C. (Aided) Primary School, estimated cost £2,345, and the erection of a child welfare clinic at Lidgate.

Southwark.—L.C.C. approved the provision of 19 garages and an amenity open space at Rockingham estate. Estimated cost £8,430.

Spenborough, Yorks.—West Riding C.C. have approved the erection of the new Scholes Junior School on land bordering Westfield Lane. Estimated cost £56,000.

Stoke-on-Trent, Staffs.—H. W. Weedon and Partners, 45-47 Calthorpe Road, Edgbaston, Birmingham, 15, are the architects, and O. A. Wainwright, Union Chambers, 63 Temple Row, Birmingham, 2, the quantity surveyor, for the erection of a five-storey block of offices on the site of the former Trinity Church, Trinity Street, Hanley, for the Norwich Union Insurance Societies, P.O. Box 4, Norwich (Contractor not yet appointed).

Stratford-on-Avon, War.—Birmingham Regional Hospital Board recommended to approve in principle scheme for the provision of a day room for Bradley Ward at the General Hospital. Estimated cost £1,100.

Stourbridge, Worcs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the extension of the kitchen at Corbett Hospital. Estimated cost £2,500.

Surrey.—L.C.C. approved a scheme for the repair of ablution blocks at Marchant's Hill rural centre, Hindhead, and Sayers Croft rural centre, Ewhurst. Estimated cost £6,050.

Swaffham, Norfolk.—U.D.C. to erect six garages at rear of Coronation Grove houses. Estimated cost £610.

Teddington, Middx.—Co. E.C. propose to erect secondary modern school at Broom Road. Estimated cost £230,175.

Thurso, Caithness.—B.C. have approved C.C. plans for the erection of a primary school. Estimated cost £130,000.

Todmorden, Yorks.—B.C. have approved the erection of four glass and concrete shelters for bus centre. Estimated cost £800.

Ulverston, Lancs.—Co. E.C. have approved scheme for improved accommodation at Ireleth C. of E. School. Estimated cost £10,000.

Wakefield, Yorks.—Leeds Regional Hospital Board have approved scheme for development of a 400-500-bed comprehensive hospital for mental defectives. Site to be decided.

Wakefield, Yorks.—West Riding C.C. recommended to approve preliminary plan for new library headquarters in Balne Lane. Estimated cost £250,000.

C.C. recommended to approve the erection of internal partitions in the office accommodation over new staff club in course of erection in Bond Street. Estimated cost £3,000.

C.C. recommended to approve the erection of new building in Balne Lane for use by the County Supplies Department. Estimated cost £250,000.

Wanstead and Woodford, Essex.—B.C. recommended to approve in principle extension to Woodford police station, for the Metropolitan Police Authority.

B.C. recommended to approve scheme for three additional garages and a paint store and a bulk refuse container on the Hermitage estate.

Warrington, Lancs.—B.C. to provide cafeteria at Walton Gardens. Estimated cost £2,000.

West Bromwich, Staffs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the provision of a central kitchen, staff dining block and cloakroom accommodation at Hallam Hospital. Estimated cost £119,900.

Windsor, Berks.—North-West Regional Hospital Board have approved the provision of fire escape facilities for the new nurses' hostel at King Edward VII Hospital. Estimated cost £26,970.

Co. E.C. recommended to approve the first instalment of the extension of Windsor County Boys' School. Estimated cost £21,700.

Wigan, Lancs.—C.C. have approved erection of new science laboratory and conversion of existing laboratory into needlework room at Platt Bridge County Secondary School. Estimated cost £9,291.

Woodhall Spa, Lincs.—U.D.C. have approved scheme for extending the Jubilee Park swimming pool. Estimated cost £8,000.

Worcester.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the provision of a prefabricated occupational therapy unit at Powick Hospital. Estimated cost £7,900.

ELECTRICAL

Birmingham.—Regional Hospital Board recommended to approve in principle scheme for a new sub-station and main electrical distribution system at Little Bromwich General Hospital. Estimated cost £29,635.

Middlesbrough, Yorks.—B.C. recommended to approve replacement of the existing

traffic lights with traffic-operated signals at the Linthorpe Road-Grange Road, Albert Road-Corporation Road junctions. Estimated cost £10,000.

West Bromwich, Staffs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the provision of a lift and covered way at first-floor level, together with the installation of a bulk storage water tank at West Bromwich and District Hospital. Estimated cost £7,215.

GAS AND WATER SUPPLY

Brighton, Sussex.—B.C. recommended to invite tenders from selected contractors for the supply of pumps and/or starters, estimated cost £12,000; invite tenders for laying 2,250yd. of 21in. diameter pipe between Charmandean and Dankton Lane, part of the trunk main planned for the Burpham scheme. Estimated cost £36,000.

Devon.—East Devon Water Board have approved in principle scheme for the development of the Wilmington supply point to take water to the villages and hamlets between Honiton and Axminster. Estimated cost £151,000.

Nuneaton, War.—B.C. recommended to apply for sanction to borrow £3,039 for the extension of the water supply to serve Meadowside estate.

Skelmersdale, Lancs.—U.D.C. to apply for sanction to borrow £4,710 for re-laying water mains in Marchbank Road, Witham Road, Barnes Road and Sherrat Street.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Edinburgh.—Regent Oil Co., Ltd., 117 Park Street, London, W.1, propose to construct a terminal at Granton Harbour. Plans by own staff. Estimated cost £500,000.

Teifisfde, Cards.—Ministry have approved R.D.C.'s plans for coast protection works at two bays in Aberporth and at Tresaith. Estimated cost £17,000.

HEATING AND VENTILATING

Durham.—Newcastle Regional Hospital Board have approved scheme for improvements to ventilation of operating theatre at County Hospital. Estimated cost £700.

Croydon, Surrey.—B.C. are to apply for loan sanction to convert boilers at Thornton Heath Baths to oil firing. Estimated cost £6,100.

Hereford.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for pipe work, sodium sulphate metering equipment, Alfloc feeder, etc., to prevent corrosion in the economiser tubes to two Lancashire boilers at the County Hospital. Estimated cost £700.

Southampton.—B.C. recommended to appoint G. H. Buckle and Partners, 2 Harrington Gardens, London, S.W.7, as heating consultants, for the science block at Western Secondary School.

Warwick.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the provision of ventilation to the switch rooms for 40-bed pavilions at Central Hospital, Hatton. Estimated cost £650.

HOUSING SCHEMES

Alston, Cumb.—R.D.C. is planning the erection of old people's houses.

Bakewell, Derbys.—R.D.C. propose the erection of 40 houses during this year.

Bexley, Kent.—B.C. recommended to prepare drawings for the erection of two houses to replace the west and east lodges in Danson Park; revised plans for old people's dwellings on the western portion of land at Wickham Street, Welling; consider sketch plans for a five-storey block of dwellings in the western area of East Wickham estate.

Birkenshaw, Yorks.—West Riding C.C. recommended to approve the erection of six houses on land at Oakroyd Hall for fire service offices. Estimated cost £13,200.

Campbeltown, Argyll.—B.C. propose to erect 20 houses at Dalaruan. Estimated cost £43,000.

Crosby, Lancs.—B.C. have approved in principle a revised outline plan submitted by the Blundell of Crosby estate for residential development of approximately 83 acres of land, south of Lower Alt Road, Hightown. Provision is made in the plan for approximately 733 dwellings giving an overall net density of 10.6 to the acre.

Durham.—City Council to sell about 11,300 sq. yd. of housing land on the Newton Hall estate to W. Leech, Ltd., St. James Street, Newcastle upon Tyne.

Durham.—Plans are being considered for the development, by private enterprise, of a housing estate at Belmont, providing for about 400 houses. The builders will be William Leech, Ltd., St. James Street, Newcastle upon Tyne, and layout plans have been prepared by Tarren and Caller, Front Street, Sedgefield.

Exeter.—City Council recommended to submit to Ministry for approval plans for the erection of approximately 259 houses at eight sites during this year.

Felling, Co. Dur.—M. Brady, Ltd., Broadwood Road, Newcastle upon Tyne, are planning the erection of about 50 houses at Windy Nook Road.

Flint.—B.C. to invite tenders for the erection of 100 houses at Pen Goch estate and 50 each at Albert Avenue and The Wern estate, Bagillt. Half of the houses will be for general housing and half for overspill families from Birmingham.

Glastonbury, Som.—B.C. recommended to approve the erection of 21 dwellings and 18 garages at Windmill Hill during this year.

Gosforth, Northumb.—Cussins, Ltd., The Drive, are to erect 38 houses at Jubilee Road.

Hackney.—B.C. recommended to authorise development of the Kenninghall Road (3) site with 80 dwellings, shops and garages, estimated cost £338,000; Valentine Road site with four maisonnettes, £47,900; and, subject to Ministry approval, Mount Pleasant Lane site with 22 flats and six garages, £66,150.

Hartlepool, Dur.—P. L. Browne, Son and Harding, Pearl Buildings, Northumberland Street, Newcastle upon Tyne, are the architects for the erection of about 85 houses at Hartlepool, for the North-Eastern Housing Association, Ltd.

Hartlepool, Dur.—B.C. to build 52 houses in the Milbank Crescent and Durham Street area.

Horsforth, Yorks.—U.D.C. propose scheme for 36 flats for old people with communal block, recreational facilities, etc.

Huntingdon.—B.C. recommended to submit to Ministry for approval schemes for the erection of 28 old people's bungalows at Cemetery Road and 42 houses at All Saints Green.

Kidderminster, Worcs.—B.C. recommended to proceed with scheme for the erection of six dwellings at Cathedral Avenue/Canterbury Road; submit to Ministry for approval, plan for 27 bungalows and some garage accommodation at Greatfield Road tip.

Mansfield, Notts.—B.C. recommended to approve plans for the erection of 16 houses at Westfield Lane; 21 at Chester Street; 24 at Upton Street; and 20 at Colwick Close, C. T. Whiting (Builders), Ltd., 25 Portland Road, Toton, Long Eaton, Nottingham.

Middlesbrough, Yorks.—Borough Engineer prepared plans for flats and maisonnettes (36 dwellings) near Feversham Street, for the B.C.

Middlesbrough, Yorks.—E. T. Sweeting and Son, Ltd., Church Lane, are to erect about 46 houses at Oldford Crescent and Church Lane.

Plans have been approved for the erection of another 238 houses on the Easterside and Pallister Park estates.

Newbiggin, Northumb.—County Planning Committee have approved the U.D.C.'s plans to erect houses on the Moor.

Northam, Devon.—U.D.C. are preparing plans for the erection of 18 houses at Burrows Way during this year.

Nuneaton, War.—B.C. recommended to prepare schemes for old people's dwellings at Bridge Street, Heath End Road and Queen Elizabeth Road and the provision of either traditional houses or old people's bungalows on vacant sites at Camp Hill estate; proceed with scheme for housing development at Meadow Street.

B.C. recommended to approve, subject to conditions, plans for 36 dwellings and some garages at Bramdean Avenue and Romsey Avenue, for G. Wimpey and Co., Ltd., Hammersmith Grove, London, W.6.

Ripon, Yorks.—City Council recommended to approve in principle the erection of 42 three-bedroom houses in Oak Road.

Rugby, War.—B.C. recommended to approve plans for 30 two and three bedroom flats with garages under at the Manor House, The Locks, Lower Hillmorton, for Clarke Bros. (Leamington), Ltd., 34 Clarendon Street, Leamington Spa.

Scunthorpe, Lincs.—B.C. recommended to approve layout plan for 16 aged persons' bungalows at Barnes Crescent.

Stanley, Yorks.—U.D.C. have approved layout for housing estate off Bolus Lane, Outwood, for G. H. Leatham and Co., of Wood Street, Wakefield.

Todmorden, Yorks.—B.C. have approved the erection of four maisonnettes for old people at Meadow Bottom.

Tow Law, Dur.—The North-Eastern Housing Association, Windsor Terrace, Newcastle upon Tyne, are to erect 28 houses at North Road.

Up Holland, Lancs.—U.D.C. Surveyor has been instructed to prepare proposals for erection of 73 dwellings on the Highgate housing estate.

Wanstead and Woodford, Essex.—B.C. recommended to apply for outline planning permission for the erection of a three-storey block of flats at 54 Groye Hill.

Whitley Bay, Northumb.—Relay Construction, Ltd., Seaton Grange estate, are to erect bungalows near Wilton Drive and Earsdon Lane, Monkseaton.

Woolwich.—Quantities will be prepared and planning approvel obtained for detailed type designs of 152 dwellings and 32 garages proposed at Commonwealth Way scheme (Bostall stage 5) by the B.C.

PLAYING FIELDS, PARKS, ETC.

Chester.—City Council recommended to apply for sanction to borrow £3,850 for the development of the open space at rear of 9 to 35 Blacon Point Road as a playing field, including the provision of a separately fenced children's playground.

Farnworth, Lancs.—B.C. recommended to approve scheme for development of Harper Green playing fields.

Hull.—Corporation Town Planning Committee have approved plan for layout of public garden on the site of St. James' Church. Estimated cost £4,000.

Kidderminster, Worcs.—B.C. recommended to approve plan for the development of Habberley Road playing field.

St. Helens, Lancs.—Ministry have approved development scheme for Sherdley Park, for B.C. Estimated cost £85,000.

Wanstead and Woodford, Essex.—B.C. recommended to submit to C.C. for grant aid, scheme for laying out and equipping the children's play area at the Old Mill playing field and the Nightingale recreation ground.

Warton, Lancs.—Parish Council approved plan for new playing field, including new pavilion, etc. Estimated cost £3,400.

Willesden, Middx.—C.C. recommended to authorise the reconstruction and resurfacing of the Braintcroft Junior School Playing Field. Estimated cost £9,625.

ROADS, BRIDGES AND SITE WORKS

Abingdon, Berks.—R.D.C. recommended to approve the provisional layout of the site at Dean Court for 120 caravans. Estimated cost £42,000.

Bexley, Kent.—B.C. recommended to surface passageways at Highland Road estate. Estimated cost £570.

Bolton, Lancs.—C.C. have approved road improvement scheme, including new bridge to replace that at junction of Darwen Road and Chapeltown Road, Bromley Cross. Work to be carried out, subject to M.T. approval, between 1962 and 1965. Estimated cost £90,000.

Brighton, Sussex.—B.C. recommended to approve schemes for the improvement of the north end of Church Hill; widening the carriageway of McWilliam Road from Warren Road to Helena Road and the construction of a road and drainage works at High Park Farm. Estimated cost £2,500 and £1,000 respectively.

Bromsgrove, Worcs.—Birmingham Regional Hospital Board recommended to approve in principle scheme for the demolition of huts and general improvements to roads and play area at Lea Hospital. Estimated cost £3,950.

Buxton, Derbys.—B.C. to submit to C.C. and M.T. for approval plans for the proposed Spring Gardens by-pass from Bridge Street to Devonshire Road.

Chatham, Kent.—B.C. to prepare scheme for making-up footpath linking Concord Avenue, Davis estate, and Snodhurst Avenue, Walderslade. Estimated cost £1,500.

Chester.—City Council recommended to prepare scheme for the construction of a bridge over the canal to connect Parkgate Road to Blacon Avenue.

Darlington, Dur.—B.C. have approved, for submission to the M.T., plans for improvement of Newton Lane. Estimated cost £22,730.

Essex.—Highways Committee have approved scheme for improvement at corner of main road at Earls Colne.

Glastonbury, Som.—B.C. recommended to approve scheme for the provision of 50 parking bays off Chinnock Road. Estimated cost £500.

Kidderminster, Worcs.—B.C. recommended to approve scheme for the construction of a car park at Bateman's timber yard during 1960-61. Estimated cost £1,350.

Kirkburton, Yorks.—West Riding C.C. recommended to approve, subject to grant, expenditure of £6,483 for remedial and ancillary works at the site of a slip on the Greenfield and Shepley Lane Head (class I) county road at Row Gate, Shepley.

Lancashire.—C.C. recommended to approve the improvement of the Liverpool-Preston-Leeds trunk road from Maghull diversion to Dunnings Bridge Road. Scheme provides for dual carriageways from the northern end of the existing dual carriageway to the southern end of the Maghull by-pass. Estimated cost £94,690.

Lancashire.—C.C. to spend £700,000 on a major road improvement in the Leigh and

Atherton area. The improvement will be between the Greyhound Island on the East Lancashire Road, Leigh, and the main road from Atherton to Bolton. The opening-up process will be in the vicinity of Warrington Road, Manchester Road, Green Lane and Queensway, Leigh. It will then reach a point where a new section of road will have to be cut to reach Atherton. The improved route will then be via Atherton Central Station bridge and on to Four Lane Ends.

Leeds.—City Council propose to spend £4,000 on layout of temporary car parks.

Lichfield, Staffs. — Birmingham Regional Hospital Board recommended to approve in principle scheme for road improvements at St. Michael's Hospital. Estimated cost £4,000.

Lydd, Kent.—Borough Surveyor to prepare plans for levelling work at Lydd Cemetery.

Merionethshire.—Highways Committee have approved a classified roads major improvement programme for the next six years. Estimated cost £948,000.

Middlesex.—C.C. recommended to approve the increase in width of the following: The bridge carrying the railway over Marsh Road at Pinner Station, estimated cost £84,250; the bridge carrying Marsh Road over the railway, £13,350; and the bridge carrying Cuckoo Hill over the railway, £29,300.

Ormskirk, Lancs.—Co. E.C. have approved making-up of cul-de-sac giving access to the Maghull St. George's R.C. Aided School. Estimated cost £1,159.

Potters Bar, Middx.—C.C. recommended to approve improvement at the junction of the Great North Road and Mutton Lane. Estimated cost £26,850.

Preston, Lancs.—County Surveyor to prepare plans for making up Newlands Avenue and Chesmere Drive, Penwortham.

Rugby, War.—B.C. recommended to apply for sanction to borrow £6,000 for the provision of a car park and access road off Corporation Street.

Scarborough, Yorks. — B.C.'s annual estimates include £22,000 for extending Woodlands cemetery.

Scunthorpe, Lincs.—B.C. recommended to apply for permission to proceed with the layout of the new cemetery.

Southampton.—B.C. recommended to prepare scheme for improvements to Upper Deacon Road; apply for sanction to borrow £9,350 and £2,700 respectively for the construction of a car and lorry park in Gloucester Square and a car park at junction of Havelock Road and Civic Centre site; £20,100 for site preparation works at Bitterne Road/Bath Road housing site.

Sunbury, Middx.—C.C. recommended to approve the construction of a roundabout at the junction of Walton Bridge Road, Russell Road and Fordbridge Road. Estimated cost £24,060.

Tipton, Staffs.—B.C. recommended to approve plans for the making-up of New Street; have submitted to M.T. for approval, scheme for the abandonment and demolition of Summerhill Canal Bridge and the regrading and widening of the part of Upper Church Lane forming the approaches to the bridge.

Windsor, Berks.—B.C. recommended to approve in principle scheme for the provision of a new road from Datchet Road to the junction of Kings Road and Frances Road.

Wisbech, I. of E.—Borough Engineer to prepare schemes for improvements to Monica Road, Henry Street, Crab Marsh, Osborne Road, Milner Road, Station Drive, St. Peter's Road and De Havilland Road.

Yeovil, Som.—B.C. recommended to apply or sanction to borrow £2,994 for making-up part of Turner's Barn Lane.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Dorking and Horley, Surrey.—C.C. have been recommended to approve in principle a scheme of sewerage and sewage disposal for the Holmwood and Newdigate areas. Estimated cost £154,000.

Durham.—City Council proposes to reconstruct Barkers Haugh sewage disposal works.

Goole, Yorks.—R.D.C. to apply for sanction to borrow £42,000 for sewerage and sewage disposal scheme at Rawcliffe.

Haverfordwest, Pembs.—B.C. have approved a major drainage scheme for the town. Estimated cost £230,000.

Kidderminster, Worcs.—Ministry have approved in principle, B.C.'s North West Worcestershire drainage scheme.

Kingussie, Inverness-shire.—Ministry have approved in principle a new sewage scheme, for B.C. Estimated cost £24,000.

Rugby, War.—B.C. recommended to apply for sanction to borrow £1,925 for surface water drainage scheme for Lower Street, Hillmorton.

Winchester, Hants.—R.D.C. to prepare a sewerage and sewage disposal scheme for Otterbourne village and the Compton Hill area of Compton.

STREET LIGHTING.

Boldon, Dur.—U.D.C. recommended to approve scheme of pilot lighting. Estimated cost £2,200.

Brighton, Sussex.—B.C. recommended to approve the following street lighting improvement schemes: Coldean Lane from Lewis Road to Forest and Hawkhurst Roads (during 1960/61), £4,000; Coldean Lane/Lewis Road area (during 1961/62), £20,370; Roundhill Crescent and Hastings Road area, £590 and £720, respectively; Marine Drive from Black Rock to Marine Gate flats, Roedean Road to Roedean School and at junction with Greenways, £1,140, £1,310 and £550, respectively.

Chester.—City Council recommended to apply for sanction to borrow £1,531 for the provision of improved lighting at Cheyney Road from Stonebridge Garage to Parkgate Road.

Exeter.—City Council recommended to approve scheme for the installation of group A street lighting along part of Rydon Lane. Estimated cost £2,120.

Farnworth, Lancs.—B.C. recommended to approve scheme and invite tenders for replacement of the existing street lighting columns in Albert Road, Worsley Road and Market Street, estimated cost £3,000; to include £905 in the next financial year for conversion of gas lamps to electricity in the footpaths leading from Plodder Lane to Townleys Hospital.

Kidderminster, Worcs.—Borough Engineer and Surveyor to prepare scheme for completing the programme for the modernisation and electrification of street lighting in the town.

St. Ives, Hunts.—B.C. recommended to approve in principle the lighting of the remainder of the town by electricity. Estimated cost £1,485.

Southampton.—B.C. recommended to apply for sanction to borrow £1,606 for the improved lighting of part of Southern Road and the Western Esplanade.

Wetherby, Yorks.—Parish Council have approved plans for electric street lighting. Estimated cost £7,178.

CONTRACTS

*Full details of the Contracts marked * will be found in our Advertisement Columns.*

BUILDING AND DECORATING

(See also Housing Schemes)

Aberdeen.—Conversion into flatted dwellings of existing property at the following, for City Council: (1) 10 Grampian Road, Torry—six dwellings; (2) 54 Walker Road, Torry—five dwellings; (3) 6 Wallfield Place — four dwellings, comprising the following works: (a) mason, drainage and slater, etc.; (b) carpenter, joiner and ironmonger; (c) plumber; (d) lath and plaster; (e) electrical; (f) painter and glazier. Applications, in writing, to the City Architect, 11 Broad Street, Aberdeen. Plans also seen at the offices of Leo Durnin, 252 Union Street, Aberdeen. Tenders by (1) Feb. 12 and (2) and (3) Feb. 19.

Abingdon, Berks.—Erection of 17 brick garages on an existing concrete hardstanding at Darrell Way, for B.C. Applications to the Borough Engineer and Surveyor, The Abbey House, Abingdon, by Feb. 3. Tenders by Feb. 19.

Acton, Middx.—Annual redecoration of schools, for B.C. Applications to the Borough Engineer, Town Hall, Acton, W.3, stating the maximum value of the works they can undertake. Tenders by Feb. 19.

Alcester, War.—Provision of bathrooms, larders, etc., to two cottages, known as Gas Cottages, The Pleck, Bidford-on-Avon, for R.D.C. Documents from the Surveyor, Council Offices, Alcester. Tenders by Feb. 24.

Aldershot, Hants.—Supply and erection of 17 precast concrete garages at Eastern Road and six at Queen Street, together with ancillary drainage and siteworks, for B.C. Documents from the Engineer and Surveyor, Town Hall, Aldershot. Deposit £2 2s. Tenders by Feb. 22.

Argyllshire.—Following, for C.C.: (a) An extension to the school, and (b) the erection of new schoolhouse at Kilmorich, Cairndow. Applications to the County Architect, County Offices, Dunoon, by Feb. 13.

Aylesbury, Bucks.—External painting to council houses in the following villages, for R.D.C.: Aston Clinton, Bierton, Brill, Buckland Bishopstone, Chearsley, Chilton, Cuddington, Dinton, Grendon Underwood, Haddenham, Halton, Hardwick, Kingswood, Long Crendon, Quainton, Stoke Mandeville, Weedon, Wendover, Weston Turville, and Upper Winchendon. Documents from Raymond C. White, council's architect, 4 Temple Square, Aylesbury. Contractors may tender for the whole or part of the works. Tenders by Feb. 15.

Ballymoney, Antrim.—Alterations and additions to the rectory at St. Patrick's Parish Church, for The Select Vestry of St. Patrick's Parish Church. Section 1—building work—including the redevelopment of part of the ground floor to form new kitchens and garages, etc., together with general repairs in accordance with plans and specifications. Section 2—heating and plumbing—including a complete low pressure hot water heating system and new plumbing works in accordance with plans and specification. Section 3—electrical wiring — including complete rewiring of existing rectory, involving electric lighting and socket outlets in accordance with plans and specification. Documents from Thomas T. Houston and Co., architects, 26 College Gardens, Belfast, 9. Deposit £3 3s. per section. Tenders by Feb. 17.

Belfast.—Following, for City Council: (a) Taking-down of existing and supply and erection of new steel fire-escape stairs at Green Isle and Tower Buildings, Ormeau Avenue; (b) interior painting work at Brefne Residental Nursery, 59-61 Somerton Road. Documents from City Surveyor's Architectural Section (Room 53), City Hall, Belfast, 1. Tenders by (a) Feb. 10 and (b) Feb. 15.

Belford, Northumb.—Conversion of part of the shelter at Broad Road End, Seahouses, to public conveniences, for R.D.C. Documents from W. R. Kirk, surveyor, Council Offices, Belford. Tenders by Feb. 12.

Birmingham. — Following, for City Council: Division, repairs and general renovations at 17-33 Grosvenor Street West, Birmingham, 16. Documents from the City Estates Officer, Bush House, 65 Broad Street, Birmingham, 1. Tenders by Feb. 11.

Blackburn.—Proposed public conveniences at The Boulevard, for B.C. Applications to the Borough Engineer, Town Hall, Blackburn, Feb. 10. Deposit £2 2s.

Blackpool.—Erection of new kitchen and classroom extension at the rear of St. John Vianney School, Glastonbury Avenue, Marton, for B.C. Documents from Arthur Hamilton, surveyor, Municipal Buildings, Blackpool (P.O. Box 17). Deposit £2. Tenders by Feb. 15.

Bridge-Blean, Kent.—Following works as separate contracts, for R.D.C.: (1) External painting of 12 Arcon prefabricated bungalows, Woodside Avenue, Chartham; (2) external painting of 87 Council houses as follows (contractors may tender for one or all of groups (a) (b) and (c))—(a) Adisham six, Bridge eight Littlebourne 16, (b) Blean 27, Harbledown (rough common) eight, Petham eight, (c) Lower Hardres 14; (3) external painting of the Council Offices, 41 Old Dover Road, Canterbury; (4) replacement of kitcheners by open fireplaces with back boilers at Council houses as follows—Ross Gardens, Harbledown, six, Chartham post-war estates, 17. Documents from the Engineer and Surveyor, Council Offices, 41 Old Dover Road, Canterbury. Tenders by March 9.

Brighton, Sussex.—Erection of new pavilion for Rottingdean miniature golf course, for B.C. Documents from the Surveyor, Engineer and Planning Officer, 26-30 King's Road, Brighton. Deposit £2 2s. Tenders by Feb. 27.

Bury St. Edmunds, Suffolk.—External repainting of 410 dwellings, eight shops and 34 garages, as follows, for B.C.: (Group a) 64 permanent houses and 18 garages in Gloucester Road, Bunbury Road, Acacia Avenue and Lake Avenue; (b) 60 permenent houses and eight shops in Derwent Road, Tennyson Road, Lake Avenue and South Parade; (c) 44 permenent houses in Northumberland Avenue; (d) 66 permanent houses in Waveney Road, Lake Avenue and Severn Road; (e) 48 flats and 16 garages in Lake Avenue and Prince Charles Avenue; (f) 68 permanent houses and flats in Springfield Avenue and Cornfield Road; (g) 60 temporary and permanent houses and flats in York and Queen's Closes, Spring Lane, Springfield Road and Blomfield Street. Documents from the Borough Engineer and Surveyor, Borough Offices, Bury St. Edmunds. Tenders by Feb. 24.

Caernarvonshire.—Erection of Medway hutted classrooms at Ysgol Maelgwn, Llandudno Junction, for C.C. Submit names to the Director of Education, Education Offices, Caernarvon, by Feb. 8. It is anticipated that the specification and drawings will be available at about the middle of February.

Castle Ward, Northumb.—Exterior repainting of 82 dwellings, at Brunswick Village, for R.D.C. Documents from G. E. Dimmack, engineer and surveyor, Council Offices, Ponteland. Deposit £1 1s. Tenders by Feb. 19.

Chelmsford, Essex.—External painting of 602 houses in following areas, for R.D.C.: Great Baddow, 156; Boreham, six; Danbury, 23; Galleywood, 12; East Hanningfield, six; South

Hanningfield, 16; Ingatestone, 88; Great Leighs, 15; Mountnessing, 36; Rettendon, five; Roxwell, 13; Runwell, eight; Springfield, 26; Great Waltham, 102; Woodham Ferrers, 16; Writtle, 74. Documents from Estates Manager (Room 27), R.D.C. Offices, New London Road, Chelmsford. Tenders by March 2.

Chesterfield, Derbys.—Carrying out of minor works of a general engineering nature, for R.D.C. The successful tender will be valid for one year from February, 1960, to January, 1961. The schedule of rates under which the works will be carried out, together with the specification, from J. B. Wikeley, engineer and surveyor, Rural Council House, Saltergate, Chesterfield. Deposit £2 2s. cheque. Tenders by Feb. 18.

Chipping Norton, Oxon.—Painting of 122 houses in the following parishes, for R.D.C.: Charlbury, 49; Churchill, 10; Combe, 12; Finstock, three; Milton-under-Wychwood, six; Rollright, 12; Shipton-under-Wychwood, 13; and Tackley, 17. Contractors may tender for one or more sites. Documents from the Housing Repairs Foreman, Council Offices, Hillside, Albion Street, Chipping Norton. Tenders by Feb. 22.

Chislehurst and Sidcup, Kent.—Repainting approximately 330 25ft. and 350 15ft. street lighting columns, for U.D.C. Applications to the Engineer and Surveyor, Manor House, Sidcup, by Feb. 12. Deposit £2 2s.

Coleraine, Londonderry.—Separate tenders for the following work at Coleraine Gasworks, for B.C.: (1) Improvements to the canteen; (2) retort house, repairs to asbestos roof sheeting, gutters, etc., and steelwork painting. Documents from Crofton Dalzell, architect, Northern Bank Building, Coleraine. Tenders by March 1.

Conway, Caerns.—Erection of a block of public conveniences at Marine Crescent, Deganwy, and the demolition of the existing conveniences, for B.C. The building is to be approximately 417 sq. ft. in floor area and will incorporate 10 w.c. cubicles, one set of urinal stalls, four lavatory basins and stores. Documents from the Borough Engineer, Bodlondeb, Conway. Deposit £2 2s. Tenders by Feb. 11.

Croydon, Surrey.—A new science laboratory and adaptations at the John Newnham School, Selsdon Park Road, for B.C. Documents from the Chief Education Officer, Katharine Street, Croydon. Deposit £1. Tenders by Feb. 23.

Croydon, Surrey.—Construction of swimming bath, kitchen and hall at St. Giles Special School, Featherbed Lane, Addington, for B.C. Documents from the Chief Education Officer, Katharine Street, Croydon. Deposit £1. Tenders by March 1.

Croydon, Surrey.—Construction of kitchen and dining room at Gonville School, Gonville Road, Thornton Heath, for B.C. Documents from the Chief Education Officer, Katharine Street, Croydon. Deposit £1. Tenders by Feb. 23.

Deben, Suffolk.—Improvements to council houses in the parish of Martlesham, for R.D.C. Felixstowe Road, 17 dwellings; Main Road, eight dwellings. The work consists of laying on water internally, provision of bathrooms, installation of w.c.'s and drainage system. Documents from the Engineer and Surveyor, Council Offices, Melton Hill, Woodbridge. Deposit £2 2s., contractors may tender for either or both of the sites. Tenders by Feb. 10.

Doncaster.—Painting of houses on various estates in small lots, for B.C. Documents from the Architect, 15 South Parade, Doncaster. Deposit £3. Tenders by Feb. 29.

***Ealing, Middx.**—Construction of boundary walls, for B.C. Tenders by Feb. 25.

East Riding.—Erection of brick boundary walls in connection with Melton Bottom Road improvement, for C.C., comprising approx. 110 sq. yd. of 9in. brickwork with precast concrete coping and other ancillary works. Documents from the County Surveyor, County Hall, Beverley. Tenders by Feb. 15.

East Riding.—Erection of an assembly hall (approximate area 3,075 super. ft.), at the Institute of Agriculture, Bishop Burton, near Beverley, for C.C. Applications to the County Architect, County Hall, Beverley. Deposit £2 (cheques payable to County Treasurer). Tenders by March 1.

Easthampstead, Berks.—Modernisation of 27 council houses at Roebuck estate, Binfield, Bracknell, for R.D.C. Documents on written application to the Engineer and Surveyor, Council Offices, Easthampstead. Deposit £2 2s. Tenders by March 7.

Eccles, Lancs.—Supply of terrazzo floor and wall tiling and toilet partitions to three public conveniences, for B.C. Documents from Engineer and Surveyor, Town Hall Annexe, Irwell Place, Eccles Tenders by Feb. 15.

Egham, Surrey.—Erection of public conveniences and drainage works in the car park at London Road, Virginia Water, for U.D.C. Documents from the Engineer and Surveyor, Fire Station Buildings, High Street, Egham. Deposit £2 2s. Tenders by Feb. 13.

Egham, Surrey.—Proposed extensions to garages at the Council Depot, High Street, for U.D.C. Documents from the Engineer and Surveyor, Fire Station Buildings, High Street, Egham. Deposit £2 2s. Tenders by Feb. 27.

Essex.—Alterations and installation of lift at hostel for elderly persons, Grosvenor House, Westcliff-on-Sea, for C.C. The work consists of alterations and the installation of a lift. The lift will be supplied by a subcontractor, already nominated, estimated cost of the whole contract £3,200. Applications to H. Conolly, architect, County Hall, Chelmsford, by Feb. 6.

Essex.—Erection of a nurse's house, Manuden, estimated cost £2,400, for C.C. Applications to H. Conolly, county architect, County Hall, Chelmsford, by Feb. 6.

Exeter.—Following, for City Council: (1) Erection of booster house at Pynes waterworks, general building works; (2) minor alterations at Ladysmith Infants' School. Applications to The Architect, 10 Southernhay West, Exeter, by Feb. 8. Deposit £2 2s. each contract.

Fishguard, Pembs.—Erection of the following; new four-class primary school, with assembly hall, for Minervia Diocesan Education Committee. Applications to Cyril Line and Partner, 31 Bridge Street, Haverfordwest, by Feb. 8.

Gower, Glam.—Repainting of 148 Council houses in the Gower area, for R.D.C. Documents from the Engineer, 19 Uplands Crescent, Swansea. Tenders by Feb. 29.

Gosport, Hants.—Public conveniences, Marine Parade East, Lee-on-the-Solent, for B.C. Documents from the Borough Engineer, The Hall, Haslar Road, Gosport. Deposit £2 2s. Tenders by Feb. 23.

Hampshire.—Erection of four additional classrooms, in two-storey work, and two single-storey lavatory blocks at Havant Front Lawn Junior School, for C.C. Construction: steel framed, semi-traditional with flat roofs. Floor area approximately 5,200 sq. ft. Applications to the County Architect, The Castle, Winchester, by Feb. 19. Deposit £2 2s. (cheques payable to County Treasurer). Tenders by Feb. 29.

Hampshire.—Erection of a kitchen (floor area approximately 1,550 sq. ft.) and alterations to the assembly hall including extending the main roof approximately 17ft., at Andover County Secondary Girls' School, for C.C. Applications to the architects, Jackson and Greenen, Hinton Buildings, Hinton Road, Bournemouth, by Feb. 10. Deposit £2 2s., cheque payable to the County Treasurer.

Hampshire.—Erection of a courthouse, police station and offices at Totton, for C.C. The buildings, in traditional construction, are on two floors and have an area of approximately 20,000 sq. ft. Applications to the County Architect, The Castle, Winchester, by Feb. 15. Deposit £2 2s., cheque payable to the County Treasurer.

Hampshire.—Erection of additional classrooms and a kitchen, mainly in traditional construction, and having a floor area of approximately 3,600 sq. ft., at East Tisted C.E. School, for C.C. Applications to the County Architect, The Castle, Winchester, by Feb. 12. Deposit £1 1s., cheque payable to the County Treasurer.

Havant and Waterloo, Hants.—Erection of a shelter at the Western Beachlands, Hayling Island, for U.D.C. Documents from the Engineer and Surveyor, 1 Park Road North, Havant. Tenders by Feb. 15.

Herefordshire.—Erection of the following for C.C.: (a) First instalment of a new school at Garway (Hereford 15 miles, Ross-on-Wye 11 miles, Monmouth nine miles approximately), comprising kitchen, dining/assembly hall, two classrooms, cloak and lavatory accommodation, etc., in single-storey construction; (b) new block at Leominster Grammar School, comprising four laboratories, two classrooms, etc., in three-storey construction. Documents from County Architect, Bath Street, Hereford, by Feb. 10. Deposit £2 2s. each project. State clearly whether deposit is for (a) or (b).

Hertford.—Following, for B.C.: (a) External rendering of 21 houses on the Hertingfordbury Road estate; (b) external painting of 248 houses on the Horns Mill and Stanstead Road estates. Applications for inclusion on a short list to A. I. Clough, clerk, The Castle, Hertford, by Feb. 10.

Holland.—Cladding of approximately 1,500 sq. ft. of vehicle shed frontage at the highways depot, Pode Hole, Spalding, for C.C. Works consist of light steel framing, corrugated asbestos and perspex sheeting and timber doors and framing. Documents from the County Surveyor, County Hall, Boston. Tenders by Feb. 15.

Ilford, Essex.—Construction of sports pavilions in the following parks, for B.C.: Seven Kings Park, Aldborough Road; Goodmayes Park, Green Lane, Goodmayes Park extension, Goodmayes Lane. Applications in writing to the Borough Engineer, Town Hall, Ilford. Deposit £2 2s. each contract. Tenders by Feb. 23.

Inverness-shire.—Additions and alterations to the dwelling house, Braedownie, Portree, for C.C. The works comprise concrete and brick, carpenter and joiner, slater, plumber, plaster, and painter work. Applications to County Architect, The Castle, Inverness, by Feb. 6.

Isle of Man.—Erection of two store sheds at Ballakillinghan, Lezayre, for Local Government Board. Documents from the Architect and Planning Officer, Isle of Man Local Government Board, Murray House, Douglas. Deposit £2 2s., payable to Government Treasurer. Tenders by Feb. 18.

Kingsclere and Whitchurch, Berks.—Minor extension to the sewage treatment plant at Holt Cottages, Ashford Hill, near Newbury, for R.D.C. Documents from the Surveyor, Council Offices, Kingsclere, Newbury. Tenders by Feb. 15.

Lincolnshire.—Adaptations and extensions to Washingborough County School, for C.C. Applications to the Architect, County Offices, Sleaford, by Feb. 12. Tenders by March 2.

Lindsey.—Following, for C.C.: (a) Two-form entry infants' school, Heapham Road, Gainsborough, containing approximately 7,000 super. fleet floor area; (b) extension to Gainsborough Technical College, containing approximately 11,400 super. ft. floor area; (c) extensions to Barton-on-Humber Grammar School, containing approximately 10,500 super. ft. floor area. Documents from A. Ronald Clark, architect, County Offices, Lincoln. Deposit £3 3s. (each contract). Tenders by March 17.

Liskeard, Corn.—Provision of water supply, drainage, bathrooms, hot water systems, cookers, fuel store and access paths at two dwellings, Gellies Hill, Morval, for R.D.C. Documents from the Council's Surveyor, Council Offices, Luxstowe House, Liskeard. Tenders by Feb. 11.

Liskeard, Corn.—Construction of public conveniences at the entrance to the Bodinnick Ferry Slip, Lanteglos-by-Fowey, for R.D.C. Documents from the Council's Surveyor, Council Offices, Luxstowe House, Liskeard. Deposit £1 1s. Tenders by Feb. 11.

***Littleborough, Lancs.**—Construction of one block of public conveniences, for U.D.C. Tenders by Feb. 20.

Liverpool.—Conversion to three self-contained flats, repairs and decorations, 49 Catharine Street, for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool. Tenders by Feb. 22.

***Margate, Kent.**—Erection of a cafe at St. Mildred's Bay, for B.C. Tenders by Feb. 20.

Middlesex.—Erection of admission wards at St. Bernard's Hospital, Southall, for North West Metropolitan Regional Hospital Board. The buildings will be single-storey brick construction with pitched tiled roofs, and will consist of four separate wards linked by an existing covered way, together with a kitchen block. The estimated cost is approx. £130,000. Applications to the Regional Architect, North West Metropolitan Regional Hospital Board, 40 Eastbourne Terrace, London, W.2, by Feb. 19.

Mossley, Lancs.—Redecoration of offices in the Borough Treasurer's Department, Town Hall, for B.C. Documents from N. H. Bowdler, Borough surveyor, Town Hall, Mossley. Tenders by Feb. 10.

Newcastle-under-Lyme, Staffs.—Reconstruction of retaining wall at Hassell Street School, for B.C., comprising the reconstruction of approximately 80yd. of retaining wall average height of retained material 6ft.; 15yd. of underpinning to existing school buildings and demolition and reconstruction of 20 lin. yd. of existing 9ft. 6in. high school wall, together with ancillary works. Documents from the Borough Surveyor's Office, Lancaster Building, High Street, Newcastle, Staffs. Tenders by Feb. 12.

Newcastle upon Tyne.—Alteration of cloakroom and toilet accommodation at Kenton Lodge Training College, Kenton Road, for E.C. Applications to the Director of Education, City Education Office, Northumberland Road, Newcastle upon Tyne, 1. Deposit £5 5s., cheques payable to E.C. Tenders by Feb. 22.

Northallerton, Yorks.—External painting of 62 houses in various parishes, for R.D.C. Documents from the Surveyor, The Old Vicarage, Northallerton. Deposit £2 2s. Tenders by Feb. 9.

Northamptonshire.—Erection of a caretaker's house at either Kettering Henry Gotch Modern or Kettering Highfields Schools, for C.C. Applications to the County Architect, County Hall, Northampton, by Feb. 8.

Northern Ireland.—Erection of extensions to following, for Ministry of Commerce: (a) Ulster Laces, Ltd., factory, Portadown, Co. Armagh, and (b) Debretta, Ltd., factory, Bangor, Co. Down. Documents from the Ministry of Commerce, Room 28, Chichester House, 64

Chichester Street, Belfast, 1. Deposit £3 each contract. Plans for (a) also seen at the Local Office of the Minister of Labour and National Insurance, Portadown. Tenders by (a) Feb. 23 and (b) Feb. 25.

Northumberland.—Alterations and improvements to kitchen at Bellingham Camp School, Bellingham, for C.C. Applications to the Architect, County Hall, Newcastle upon Tyne, 1, by Feb. 8.

Northumberland.—Additional lavatory accommodation at Whitley Park County Secondary School, Marine Gardens, Whitley Bay, for C.C. Applications to the Architect, County Hall, Newcastle upon Tyne, by Feb. 10.

Oxford.—Construction of a permanent brick sports pavilion and changing accommodation of approx. 2,000 super. ft. floor area at Banbury Road North sports ground, for City Council. Applications to the City Engineer, Town Hall, Oxford, by Feb. 8. Tenders by March 7.

Oxford.—Erection of following, for City Council: Old people's hostel at Cutteslowe; child welfare clinic, Cowley, and North Oxford branch library and child welfare clinic. The first is a hostel for 60 old people in two and three storey traditional construction, the second and third are single-storey buildings. Applications to the City Architect, Town Hall, Oxford, by Feb. 5.

***Port Talbot, Glam.**—Branch library at Sandfields, for B.C. Deposit £2 2s. Tenders by Feb. 22.

Reigate, Surrey.—Conversion of Whitepost House, Whitepost Hill, Redhill, into 12 flatlets for old people, for B.C. Documents from Borough Surveyor, Town Hall, Reigate. Tenders by Feb. 22.

Rochdale, Lancs.—Internal painting of St. Alban's Junior and Infants' Schools, for B.C. Documents from Borough Surveyor, Town Hall, Rochdale. Tenders by Feb. 15.

Rugby, War.—Construction of a public convenience at Brownsover, for B.C. Documents from the Borough Surveyor, Burford House, Church Walk, Rugby. Tenders by Feb. 9.

Saffron Walden, Essex.—Painting of houses as follows, for R.D.C.: Ashdon 16; Great Chesterford 36; Chrishall 12; Clavering 40; Elsenham 40; Farnham 16; Littlebury 16; Newport 14; Great Sampford 12; Stansted 48; Strethall four; Ugley four; Wendens Ambo 10; Wicken four; Widdington 18; Wimbish 20. Documents from the Surveyor, Council Offices, Debden Road, Saffron Walden. Tenders by Feb. 13.

Salford, Lancs.—Extensions and adaptations to Cromwell Secondary Modern School, for E.C. Documents from Cruickshank and Seward, architects, Royal London House, 196 Deansgate, Manchester. Deposit £3 3s (cheques payable to E.C.). Tenders by April 4.

South Cork, Eire.—Erection of a dispensary at Crosshaven, for Board of Public Assistance. Documents from the Board's Secretary, 6 George's Quay, Cork. Deposit £5. Tenders by Feb. 12.

Southport.—Following, for B.C.: Specification (1) exterior painting to Crown and Bank Buildings (Eastbank Street), Market Hall, etc., four contracts; Specification (2) interior decorations and exterior painting to Botanic Gardens New Cafe (formerly the Concert Room), one contract. Documents from the Architect and Town Planning Officer's Department, 99/105 Lord Street, Southport. Deposit £1 1s. Tenders by Feb. 12.

South Shields, Dur.—Combined public conveniense and electricity sub-station at Station Approach, South Shields, for B.C. Documents from Borough Engineer. Town Hall, South Shields. Deposit £2 2s. Tenders by Feb. 16.

Thurrock, Essex.—Following, for U.D.C.: Adaptation of small bedroom into a bathroom with hot water supply in 13 council houses and reconstruction of back addition kitchen/scullery into kitchen/scullery, bathroom, toilet, with hot water supply, in 25 council houses. Applications to A. E. Poole, clerk of the Council, Council Offices, Whitehall Lane, Grays, by Feb. 12.

Torquay, Devon.—Erection of public conveniences, Ansteys Cove, for B.C. Applications in writing to the Borough Surveyor, Town Hall, Torquay, by Feb. 10. Deposit £2 2s., cheques payable to Corporation.

Twickenham, Middx.—Erection of a cricket pavilion with public lavatory, etc., attached at Murray Park, Whitton, for B.C. Applications to the Borough Engineer, Municipal Offices, Twickenham, by Feb. 8. Deposit £2 2s.

Tynemouth, Northumb.—Provision of washhouses for 20 police dwellings, for B.C. Documents from Borough Surveyor, 16 Northumberland Square, North Shields. Deposit £1 1s. Tenders by March 2.

Tynemouth, Northumb.—Erection of new mortuary at the Fish Quay, North Shields, for B.C. Documents from the Borough Surveyor, 16 Northumberland Square, North Shields. Deposit £1 1s. Tenders by March 2.

Uppingham, Rutland. — Following, for R.D.C.: (a) Erection of two pairs of dwelling houses with garages at Glaston, and (b) construction of new public conveniences in the Market Place, Uppingham. Documents from Noel Branston, clerk, Council Offices, Uppingham. Deposit £1 1s. Tenders by Feb. 22.

Wellingborough, Northants.—External painting of the following properties, for U.D.C.: (a) Sixty-three houses at Jubilee Crescent; (b) Berrymoor Road shopping centre comprising 12 shops and 23 flats and maisonnettes, etc. Documents from Housing Manager, Council Offices, Swanspool, Wellingborough. Deposit £1 1s. Tenders by Feb. 16.

West Riding.—Conversion of classroom to kitchen (all trades) at Penistone Spring Vale County Primary School, for C.C. Applications to Divisional Architect, Flint Street, Huddersfield, by Feb. 22. Tenders by March 7.

West Suffolk.—Exterior painting and repairs to complete school and house, part interior decorations to school and boarding house, and various other works at Bury St. Edmunds King Edward VI Grammar School, the work to be commenced during the school's holiday period at Easter and completed in the summer holiday, for C.C. Apply to the County Architect, Westgate House, Bury St. Edmunds, by Feb. 10.

Wolverhampton.—Hilton Waterworks, completion of buildings, for B.C. Construction of additional buildings together with the decorative finish to an existing pumphouse. Applications to the Water Engineer, 37 Merridale Road, Wolverhampton, by Feb. 15. Deposit £3.

Worcester.—Improvements at St. John's Boys' School, for City Council. Applications to Wilson, Colbeck and Partners, 86 Old Brompton Road, London, S.W.7, by Feb. 8. Deposit £2 2s.

CLOTHING AND TEXTILES

Aberdeen.—Supply of police uniform greatcoats, jackets, trousers, caps, leather gloves, shirts, collars, ties, skirts and stockings, for Scottish North-Eastern Counties Police Board. Documents from James L. Craig, clerk to the Board, County Buildings, 22 Union Terrace, Aberdeen. Tenders by Feb. 20.

Birmingham.—Supply of uniform caps, for City Transport. Documents from W. H. Smith, general manager, Birmingham City Transport, Council House, Congreve Street, Birmingham, 3. Tenders by Feb. 9.

Bristol.—Following supplies for 12 months commencing April 1, 1960, for City Council: Fire service uniforms; ambulance service uniforms; uniform clothing (general); waterproof clothing; overalls; men's suits and overcoats. Documents from Central Purchasing Department, 2 Upper York Street, St. Paul's, Bristol, 2. Tenders by Feb. 9.

DEMOLITION

Bury, Lancs.—Demolition of 90-102 Bolton Road and 1a Ainsworth Road, for B.C. Documents from Borough Engineer, Town Hall, Bury. Tenders by Feb. 13.

Bury, Lancs.—Demolition of 101 Bolton Street, for B.C. Documents from Borough Engineer, Town Hall, Bury. Tenders by Feb. 13.

Kerrier, Corn.—Demolition to slab level of 22 hutments comprising 34 units of accommodation at Trelanvean, for R.D.C. Documents from W. J. Thomas, clerk of the Council, Council Offices, The Willows, Helston. Deposit £1 1s. Tenders by March 5.

Lanarkshire.—Demolition of houses 91 and 93 Hamilton Road, Cambuslang, for C.C. Applications in writing to D. G. Bannerman county architect, 34 Albert Street, Motherwell, by Jan. 30.

Luton, Beds.—Demolition of a small sewage works at Hyde Road, Caddington, for R.D.C. Documents from the Engineer and Surveyor, 48 Bute Street, Luton. Tenders by March 19.

Sunderland.—Demolition of 99 Low Street, for B.C. Documents from Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £1 1s., cheques payable to Corporation. Tenders by Feb. 16.

ELECTRICAL

Andover, Hants.—Provision, improvement and/or modification of electrical installations in 187 pre-war houses, for B.C. Documents from the Borough Surveyor, Municipal Offices, Beach Hurst, Weyhill Road, Andover. Tenders by Feb. 11.

Brownhills, Staffs.—Electrical installation to the following dwellings, for U.D.C.: Seventy dwellings, Ogley Hay, Brownhills; 72 houses, Leighs Road, High Heath, Pelsall; 25 houses, Leighs Road, High Heath, Pelsall. Documents from Charles H. Hunt, engineer and surveyor, Coombe House, Brownhills. Deposit £1 1s. Tenders by Feb. 15.

Cardiff.—Electrical installation in Llandaff Technical College, third stage, for City Council. Documents from the City Surveyor, City Hall, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by Feb. 19.

Clutton, Som.—Electrical installation for 66 dwellings at Paulton, for R.D.C. Documents from Thomas and Morgan and Partners, architects, 23 Gelliwastad Road, Pontypridd. Deposit £1 1s. Tenders by Feb. 10.

Dagenham, Essex.—Wiring of an additional lighting point on the upstairs landing of 230 properties on the Frizlands estate, for B.C. Documents from the Borough Engineer and Surveyor, Civic Centre, Dagenham. Tenders by Feb. 20.

Dundee, Angus.—Electrical work of alteration to lighting at art rooms, Morgan Academy, for City Council. Documents from City Quantity Surveyor, 21 City Square. Plans seen at the office of the City Architect, 17 City Square. Tenders by Feb. 15.

Fermanagh.—Lighting and heating installation in connection with building alterations at County Health Offices at Castle Barracks, Enniskillen, for County Health Committee. Documents from J. Brown, secretary, Castle Barracks, Enniskillen. Deposit £3 3s. Tenders by Feb. 18.

***Fylde, Lancs.**—Supply of electrical equipment, for Water Board. Tenders by Feb. 19.

Lancashire.—Following, for C.C.: Supply and installation of two electric passenger lifts at Liverpool I.M. Marsh Training College; electrical installations at Tarleton County Secondary School;; electrical installations at Golborne Culcheth County Primary School; supply and erection of closed-type steel shelving in stacks with mezzanine floors, stairs and fire escape at Old Sessions House, Preston. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Feb. 8.

Wallasey, Ches. — Electrical installation, Riverside School, for B.C. Documents from the Borough Architect, Town Hall, Wallasey. Tenders by Feb. 15.

Wisbech, Cambs.—Installation of electric lighting equipment, etc., to the new pumping station in Money Bank, for B.C. Documents from the Engineer, Church Terrace, Wisbech. Tenders by Feb. 17.

FENCING

***Letchworth, Herts.**—Chain link fencing on Grange estate, for U.D.C. Deposit £2 2s. Tenders by Feb. 19.

GAS AND WATER SUPPLY

Alnwick, Northumb.—Supply and laying of water mains to the industrial area, for U.D.C. Documents from G. Beaty, town surveyor, The Council House, Wagonway Road, Alnwick.

Angus.—Following, for C.C.: (a) Lintrathen water supply, contract 7, 100,000 gallons reinforced concrete tank; 20 miles 7in., 6in., 4in., 3in., and 2in. asbestos-cement water mains; (b) Lundie/Auchterhouse/Tealing water supply, contract 3, 25 miles 6in., 4in., 3in., and 2in. asbestos-cement water mains. Applications to County Engineer, County Buildings, Forfar, by Feb. 29.

Chapel-en-le-Frith, Derbys.—Hope Valley water supply, for R.D.C. Laying of approximately 3,000yd. of 6in. asbestos main and for the carrying out of ancillary works. Documents from the Engineer and Surveyor, Council Offices, Hayfield Road, Chapel-en-le-Frith, Stockport. Deposit £2 2s. Tenders by Feb. 12.

***Chelmsford, Essex.**—Water pipes and fittings at new cattle market, for B.C. Tenders by Feb. 12.

***Cirencester, Glos.**—Fairford water supply, for R.D.C. Deposit £5 5s. Tenders by Mach 4.

***Holywell, Flints.**—Holywell water supply, for U.D.C. Deposit £2 2s., cheques payable to U.D.C. Tenders by Feb. 29.

Kingsclere and Whitchurch, Hants.—Laying of 882yd. of 2in. galvanised tube water main at Wheathold Green, Ashford Hill, near Newbury, for R.D.C. Documents from the Surveyor, Council Offices, Kingsclere, Newbury, Berks. Tenders by Feb. 15.

Lincolnshire.—Water mains, Barnoldby-le-Beck, for North-East Lincolnshire Water Board, comprising excavation, laying and jointing of 5,640yd. of 9in. diameter spun-iron water main and 2,650yd. of 4in. diameter asbestos-cement main, together with valves, hydrants, etc. Documents from Cyril Cooper, engineer and manager, Town Hall Square, Grimsby. Tenders by Feb. 15.

Macclesfield, Ches.—Construction of an impounding reservoir of 420,000,000 gallons capacity at Lamaload, for B.C. The contract involves the construction of a concrete buttress dam 600ft. long and 120ft. high and ancillary works. Applications to Walter Isaac, town clerk, Town Hall, Macclesfield, by Feb. 15.

Narberth, Pembs.—Water supply extension, Upper Carvan to Pen-parc, for R.D.C. The works comprise of excavating and refilling trenches in fields and roads, supplying, laying

and jointing 2,650yd. of 3in. diameter spun-iron pipes with joints complete, together with all necessary valves and special fittings and other contingent works. Documents from J. Owen Parry and Lewis, consulting engineers, Arcade Chambers, Ammanford. Deposit £3 3s. payable to R.D.C. Tenders by March 3.

***South Cardiganshire.**—Mainlaying contract 12, for Water Board. Deposit £2 2s. cheque. Tenders by Feb. 26.

South Cardiganshire.—Mynydd Bach service reservoir, contract 13, for Water Board, comprising the construction of a reinforced concrete covered service reservoir with earthen embankments to contain 500,000 gallons, access road thereto, and other ancillary works in connection therewith, at Penuwch, about six miles west of Tregaron and eight miles east of Aberayron. Documents from Rofe and Raffety, 9 Brewer's Green, Buckingham Gate, London, S.W.1. Deposit £2 2s., cheque. Plans also seen at the office of the Engineer to the Board, 36 Alban Square, Aberayron, Cardiganshire. Tenders by Feb. 26.

South Cardiganshire.—Laying of approx. 4,000 yd. of 4in. and 17,000yd. of 3in. asbestos-cement and spun-iron water mains, and incidental works in connection therewith, The lengths of the link mains vary between 3,080yd. and 375yd., contract 23, for Water Board at the following sites: Trefilan, Verwig, Tresaith, Pentregat, Llangranog, Ffynnon Llawddog, Ponthirwaun, Rhydlewis, Capel Cynon, Rhydowen, Pisgah, Ffynnon Berw, Cwmcoy, Adpar, and New Quay. Documents from Rofe and Raffety, engineers, 9 Brewer's Green, Buckingham Gate, Westminster, London, S.W.1. Deposit £2 2s., cheque. Plans also seen at the Offices of the Engineer to the Board, 36 Alban Square, Aberayron. Tenders by Feb. 16.

Wexford, Eire.—Supply and erection of equipment for rapid gravity filter plant capable of treating 12,000 gallons per hour, for C.C. Documents from P. H. McCarthy and Son, consulting engineers, 26 Lower Leeson Street, Dublin. Deposit £5 5s. Tenders by Feb. 27.

HEATING AND VENTILATING

Clutton, Som.—Hot water installations (back boilers) at 1-20 Stockhill, Chilcompton, and 1-16 Compton Martin, for R.D.C. Documents from the Housing Manager, Council Offices, Temple Cloud, Bristol. Tenders by Feb. 17.

***Leeds.**—Heating and hot water services to Menston Hospital, for Regional Hospital Board. Apply by Feb. 10. Deposit £2 2s. Tenders by March 9.

Market Bosworth, Leics.—Installation of solid fuel hot water supplies in 34 pre-war Council houses, for R.D.C. Documents from the Surveyor, Council Offices, Nuneaton. Deposit £1 1s. Tenders by Feb. 16.

Omagh.—Low pressure hot water heating, hot and cold water, mains water, and gas installations in new office building, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Feb. 25.

HOUSING SCHEMES

Barnsley, Yorks.—Contract S.H.4. 100 dwellings, comprising 33 pairs of three-bedroom houses, 10 pairs of two-bedroom houses, and seven pairs of one-bedroom bungalows, at St. Helens estate, for B.C. Documents from the Borough Engineer, Town Hall, Barnsley. Deposit £2 2s. Tenders by Feb. 17.

Barrowford, Lancs.—Following works, for U.D.C.: (a) Approx. 750 lin. ft. pitched and macadam carriageways, together with kerbs, footpaths, foul and surface water sewers; (b) the erection of 24 two-storey flats in four blocks, together with paving and other site works. Documents from the Engineer and Surveyor, Council Offices, Halstead Lane, Barrowford. Deposit £2 2s. each. Tenders by March 4.

Bridge-Blean, Kent.—Erection of two pairs of three-bedroom houses, one block of four flats and one block of four bungalows at Hollow Street, Chislet, and the provision of external services within the curtilage of the dwellings, for R.D.C. Documents from the Council Offices, 41 Old Dover Road, Canterbury. Deposit £2 2s., cheques payable to R.D.C. Plans also seen at the office of H. V. Godfrey, architect, 63 Oxford Street, Whitstable. Tenders by March 7.

Bury St. Edmunds, Suffolk.—Fifteen houses Oliver Road and Willcox Avenue, for B.C. Documents from the Engineer and Surveyor, Borough Offices, Bury St. Edmunds. Deposit £2 2s. Tenders by Feb. 29.

Cardiff.—Thirty one-bedroom flats in two contracts as follows, for City Council: Group 1—Eighteen one-bedroom flats in three blocks at Newborough Avenue, Llanishen; Group 2—12 one-bedroom flats in two blocks at Gabalfa Avenue, Gabalfa. Documents from the City Architect's Department, 12 Park Place, Cardiff. Deposit £2 2s. each contract, cheques payable to Corporation. Tenders by Feb. 16.

Faringdon, Berks.—Following for R.D.C.: (1) Site preparation works, Longworth; (2) erection of four houses and eight bungalows at Longworth; (3) site preparation works, Faringdon; (4) erection of six houses and twelve bungalows at Faringdon. Documents from the Council's Engineer and Surveyor, Council Offices, Market Place, Faringdon. Deposit £2 2s. Tenders, for whole or parts of work, by Feb. 27.

Hartley Wintney, Hants.—Two semi-detached police houses at Hartley Row police station, for Hampshire and Isle of Wight Police Authority. Applications to the County Architect, The Castle, Winchester, by Feb. 15. Deposit £1 1s., cheque payable to the Treasurer of the Police Fund.

Hemsworth, Yorks.—Thirty-four one-bedroom type aged persons' bungalows in the parish of Ryhill, for R.D.C. Documents from S. Price, engineer and surveyor, Brierley, near Barnsley. Deposit £4 4s. Tenders by Feb. 10.

Hertford.—Erection of following, for R.D.C.: (a) Little Amwell, eight Rebecca bungalows, Downfield Road; (b) Tewin, 12 x 3 bedroom houses, four bungalows, and 11 garages at Grass Warren, together with some siteworks in each case. Applications to E. A. Williams, clerk, Wallfield Pegs Lane, Hertford, by Feb. 13. Deposit £2 each contract.

Isle of Wight.—Erection of a single police house adjoining Parklands Children's Home, Park Road, Cowes, for C.C. Applications to the County Architect, County Hall, Newport, I. of W., by Feb. 12. Deposit £2 2s. Tenders by March 9.

Lancashire.—One pair of police houses at Littleborough, for C.C. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Feb. 8.

Ledbury, Heres.—Erection of four old peoples' dwellings at Putley, for R.D.C. Applications to D. B. W. Dykes, clerk, Council Offices, Church Street, Ledbury, by Feb. 12. Deposit £2 2s.

Liverpool.—Following, for City Council: (a) Twelve aged persons' flats, Belem Tower, Aigburth Drive, Liverpool, 17; (b) 23 dwellings, Heath Road, Greenhill Road, Liverpool, 18. Documents from City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2. Deposit £2 2s. each contract, payable to City Treasurer. Tenders by Feb. 18.

Ploughley, Oxon.—Construction of one pair of houses, Merton Way, Yarnton, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Waverley House, Queens Avenue, Bicester. Deposit £2 2s. Tenders by Feb. 19.

Portsmouth.—Following, for City Council: (a) 78 houses, Prospect Farm; (b) three shops, three maisonnettes and six houses, Paulsgrove; (c) 60 traditional garages, Paulsgrove; (d) one house, Fawcett Road. Applications to the City Architect, 1 Western Parade, Portsmouth, by Feb. 10. Deposit £1 each contract.

Port Talbot, Glam.—Thirty-six three-bedroom dwellings at Jersey House site, Baglan, for B.C. Documents from G. V. Griffiths, borough engineer, Municipal Buildings, Port Talbot. Deposit £2 2s. Tenders by Feb. 12.

***Port Talbot, Glam.**—Thirty-six dwellings Jersey House site, for B.C. Deposit £2 2s. Tenders by Feb. 22.

***Rochester.**—Houses and flats Warren Wood redevelopment stage iv, for City Council. Deposit £3 3s. Tenders by March 7.

Scarborough, Yorks.—Twenty-four one-bedroom flats West Place, for B.C. Documents from V. Forshaw, borough and water engineer, Town Hall, Scarborough. Deposit £2 2s. Tenders by Feb. 29.

South Shields, Dur.—One hundred and twenty houses and 43 garages at Simonside, for B.C., comprising 56 two-bedroom terrace houses, 12 corner type flats, 52 three-bedroom semi-detached houses and 43 garages. Documents from the Borough Engineer, Town Hall, South Shields. Deposit £2 2s. Tenders by March 9.

Spilsby, Lincs.—Five bungalows at Maddison Lane, Partney, for R.D.C. Applications to G. F. Taylor, engineer and surveyor, Council Offices, Toynton Hall, Spilsby. Deposit £3 3s., cheque payable to R.D.C. Tenders by Feb. 29.

***Standish - with - Langtree, Lancs.**—Old people's bungalows contract 1, and road and sewer works contract 2, for U.D.C. Deposit £2 2s each contract. Tenders by Feb. 29.

Winchester.—Forty-four dwellings at Winnall Manor estate, contract 6, for City Council. Applications to A. S. Wilson and Partners, quantity surveyors, 8 Storey's Gate, Westminster, S.W.1, by Feb. 11. Deposit £2 2s (cheques payable to Corporation).

MATERIALS AND SUPPLIES

Abingdon, Berks.—Following for the period April 1, 1960, to March 31, 1961, for B.C.: (1) Concrete kerbing and paving slabs, scavenging brooms, rubber boots, sand, ballast, tarmacadam, bitumen macadam, coke and coal; (2) dustbins, sanitary fittings, hardboard, distemper, electric lamps, sundry carpenters' fittings, glass and protective clothing; (3) floorcloths, dusters, mops, cleansing powder, soap and toilet rolls. Documents from the Engineer and Surveyor, The Abbey House, Abingdon. Tenders by Feb. 22.

Airdrie, Lanarks.—Following, for B.C.: (a) Joiners' materials and ironmongery, etc.; (b) paints; (c) paint brushes; (d) plumbers' requisites; (e) medical supplies; (f) cleaning materials; (g) motor car supplies; (h) electric lamps; and (i) builders', slaters', and plasterers' materials for the period from May 16, 1960, to May 15, 1961. Documents from Jas. Taylor, town clerk, Municipal Buildings, Airdrie. Tenders by March 5.

Bangor, Caerns.—Supply of the following materials for a period from April 1, 1960, to March 31, 1961, for City Council: (1) Stone for macadam, tarmacadam and chippings; (2) road surface dressing (tar and cold emulsions). Tenders and contracts will have to conform with the Standing Orders of the Council. Documents from the offices of the City Surveyor, Town Hall, Bangor. Tenders by Feb. 12.

Barnet, Herts.—Following for the year commencing April 1, 1960, for U.D.C.: (1) Shingle, concrete ballast, sand, hoggin; (2) tarmacadam, bituminous topping, fine cold asphalt. Documents from Engineer and Surveyor, Ravenscroft House, Wood Street, Barnet. Tenders by Feb. 11.

Batley, Yorks.—Following during the 12 months ending March 31, 1961, for B.C.: (1) Portland cement; (2) concrete aggregates; (3) concrete kerbs and flags; (4) stone kerbs; (5) quartzite, granite and slag chippings for tarspraying; (6) crushed limestone; (7) tar and bitumen (hot spraying); (8) bituminous cold emulsion; (9) tarmacadam; (10) cold asphalt; (11) hydrated lime; (12) salt-glazed ware pipes; (13) bricks; (14) salt; (15) petrol, oils and lubricants; (16) castings; (17) ironmongery; (18) dustbins and gas boilers; (19) chromium-plated water taps; (20) hand brooms and rebristling brooms for mechanical road sweeper; (21) ashes and hired haulage. Documents from the Borough Engineer, Hanover Street, Batley. Tenders by Feb. 20.

Benfleet, Essex.—Following goods and services for a period of 12 months commencing April 1, 1960, for U.D.C.: (1) Precast concrete paving and kerbs; (2) cast-iron road covers and gullies; (3) coal and coke, etc.; (4) tarred stone and cold asphalt; (5) cement, lime and salt-glazed pipes; (6) overalls, donkey jackets and rubber boots; (7) sand, gravel, hoggin, hardcore and clinker ash; (8) rebristling brooms for mechanical sweeper; (9) surface dressing of streets; (10) paint, distemper and putty. Documents from the Engineer and Surveyor, Council Offices, Thundersley. Tenders by Feb. 22.

Berwickshire.—Following during the year ending May 15, 1961, for C.C.: (1) Road haulage (in districts); (2) supply and delivery of whinstone rubble, dry chippings, crusher run aggregate, bituminous and tar macadam; (3) supply and delivery of tars and bitumens; (4) tarspraying—direct application; (5) thermoplastic white lines; (6) hire of plant including excavators, shovels, tractors, etc.; (7) supply and delivery of concrete kerbs and flags; (8) chemical spraying of roadsides. Documents from the County Road Surveyor, Southfield, Duns. Tenders by Feb. 27.

Bodmin, Corn.—Following for the year ending March 31, 1961, for B.C.: (1) Disinfectants, insecticides and toilet paper; (2) road brooms; (3) precast concrete products; (4) building materials (excluding paint); (5) building hardware, fittings and fireplaces; (6) roadstone and tarmacadam; (7) supply and installation of electric cookers. Documents from the Borough Surveyor, Municipal Offices, Priory House, Bodmin. Tenders by Feb. 22.

Brierley Hill, Staffs.—Following for the year ending March, 1961, for U.D.C.: Part I—Highways Department: (1) Roadstones, slag and chippings; (2) tarmacadam and bituminous macadam; (3) tar and tar compounds and bituminous emulsion; (4) concrete kerbs and slabs; (5) concrete and stoneware pipes; (6) cast-iron manhole covers, gully grates and frames; (7) shovels and picks; (8) cement and sand; (9) coal; (10) hired transport; (11) labour, plant and tools for laying road materials, i.e., kerbs, pavings, footpaths, etc. (materials supplied by Council); (12) premixed waterbound macadam; (13) ready-mixed concrete; (14) industrial clothing. Part II—Housing Department: (1) Concrete line posts; (2) chimney pots; (3) copper tube fittings; (4) draining boards; (5) gas wash boilers; (6) Claco continuous-burning fires; (7) sheet glass for glazing; (8) rails; (9) paints and distemper; (10) cast-iron gutters and face pipes; (11) sinks; (12) ball valves and floats; (13) glazed tiles; (14) w.c. pans and flushing cisterns; (15) w.c. ring seats. Part III—Public Health Department: (1) Dustbins. Documents from the Engineer and Surveyor,

Chichester Street, Belfast, 1. Deposit £3 each contract. Plans for (a) also seen at the Local Office of the Minister of Labour and National Insurance, Portadown. Tenders by (a) Feb. 23 and (b) Feb. 25.

Northumberland.—Alterations and improvements to kitchen at Bellingham Camp School, Bellingham, for C.C. Applications to the Architect, County Hall, Newcastle upon Tyne, 1, by Feb. 8.

Northumberland.—Additional lavatory accommodation at Whitley Park County Secondary School, Marine Gardens, Whitley Bay, for C.C. Applications to the Architect, County Hall, Newcastle upon Tyne, by Feb. 10.

Oxford.—Construction of a permanent brick sports pavilion and changing accommodation of approx. 2,000 super. ft. floor area at Banbury Road North sports ground, for City Council. Applications to the City Engineer, Town Hall, Oxford, by Feb. 8. Tenders by March 7.

Oxford.—Erection of following, for City Council: Old people's hostel at Cutteslowe; child welfare clinic, Cowley, and North Oxford branch library and child welfare clinic. The first is a hostel for 60 old people in two and three storey traditional construction, the second and third are single-storey buildings. Applications to the City Architect, Town Hall, Oxford, by Feb. 5.

***Port Talbot, Glam.**—Branch library at Sandfields, for B.C. Deposit £2 2s. Tenders by Feb. 22.

Reigate, Surrey.—Conversion of Whitepost House, Whitepost Hill, Redhill, into 12 flatlets for old people, for B.C. Documents from Borough Surveyor, Town Hall, Reigate. Tenders by Feb. 22.

Rochdale, Lancs.—Internal painting of St. Alban's Junior and Infants' Schools, for B.C. Documents from Borough Surveyor, Town Hall, Rochdale. Tenders by Feb. 15.

Rugby, War.—Construction of a public convenience at Brownsover, for B.C. Documents from the Borough Surveyor, Burford House, Church Walk, Rugby. Tenders by Feb. 9.

Saffron Walden, Essex.—Painting of houses as follows, for R.D.C.: Ashdon 16; Great Chesterford 36; Chrishall 12; Clavering 40; Elsenham 40; Farnham 16; Littlebury 16; Newport 14; Great Sampford 12; Stansted 48; Strethall four; Ugley four; Wendens Ambo 10; Wicken four; Widdington 18; Wimbish 20. Documents from the Surveyor, Council Offices, Debden Road, Saffron Walden. Tenders by Feb. 13.

Salford, Lancs.—Extensions and adaptations to Cromwell Secondary Modern School, for E.C. Documents from Cruickshank and Seward, architects, Royal London House, 196 Deansgate, Manchester. Deposit £3 3s (cheques payable to E.C.). Tenders by April 4.

South Cork, Eire.—Erection of a dispensary at Crosshaven, for Board of Public Assistance. Documents from the Board's Secretary, 6 George's Quay, Cork. Deposit £5. Tenders by Feb. 12.

Southport.—Following, for B.C.: Specification (1) exterior painting to Crown and Bank Buildings (Eastbank Street), Market Hall, etc., four contracts; Specification (2) interior decorations and exterior painting to Botanic Gardens New Cafe (formerly the Concert Room), one contract. Documents from the Architect and Town Planning Officer's Department, 99/105 Lord Street, Southport. Deposit £1 1s. Tenders by Feb. 12.

South Shields, Dur.—Combined public conveniense and electricity sub-station at Station Approach, South Shields, for B.C. Documents from Borough Engineer. Town Hall, South Shields. Deposit £2 2s. Tenders by Feb. 16.

Thurrock, Essex.—Following, for U.D.C.: Adaptation of small bedroom into a bathroom with hot water supply in 13 council houses and reconstruction of back addition kitchen/scullery into kitchen/scullery, bathroom, toilet, with hot water supply, in 25 council houses. Applications to A. E. Poole, clerk of the Council, Council Offices, Whitehall Lane, Grays, by Feb. 12.

Torquay, Devon.—Erection of public conveniences, Ansteys Cove, for B.C. Applications in writing to the Borough Surveyor, Town Hall, Torquay, by Feb. 10. Deposit £2 2s., cheques payable to Corporation.

Twickenham, Middx.—Erection of a cricket pavilion with public lavatory, etc., attached at Murray Park, Whitton, for B.C. Applications to the Borough Engineer, Municipal Offices, Twickenham, by Feb. 8. Deposit £2 2s.

Tynemouth, Northumb.—Provision of washhouses for 20 police dwellings, for B.C. Documents from Borough Surveyor, 16 Northumberland Square, North Shields. Deposit £1 1s. Tenders by March 2.

Tynemouth, Northumb.—Erection of new mortuary at the Fish Quay, North Shields, for B.C. Documents from the Borough Surveyor, 16 Northumberland Square, North Shields. Deposit £1 1s. Tenders by March 2.

Uppingham, Rutland. — Following, for R.D.C.: (a) Erection of two pairs of dwelling houses with garages at Glaston, and (b) construction of new public conveniences in the Market Place, Uppingham. Documents from Noel Branston, clerk, Council Offices, Uppingham. Deposit £1 1s. Tenders by Feb. 22.

Wellingborough, Northants.—External painting of the following properties, for U.D.C.: (a) Sixty-three houses at Jubilee Crescent; (b) Berrymoor Road shopping centre comprising 12 shops and 23 flats and maisonnettes, etc. Documents from Housing Manager, Council Offices, Swanspool, Wellingborough. Deposit £1 1s. Tenders by Feb. 16.

West Riding.—Conversion of classroom to kitchen (all trades) at Penistone Spring Vale County Primary School, for C.C. Applications to Divisional Architect, Flint Street, Huddersfield, by Feb. 22. Tenders by March 7.

West Suffolk.—Exterior painting and repairs to complete school and house, part interior decorations to school and boarding house, and various other works at Bury St. Edmunds King Edward VI Grammar School, the work to be commenced during the school's holiday period at Easter and completed in the summer holiday, for C.C. Apply to the County Architect, Westgate House, Bury St. Edmunds, by Feb. 10.

Wolverhampton.—Hilton Waterworks, completion of buildings, for B.C. Construction of additional buildings together with the decorative finish to an existing pumphouse. Applications to the Water Engineer, 37 Merridale Road, Wolverhampton, by Feb. 15. Deposit £3.

Worcester.—Improvements at St. John's Boys' School, for City Council. Applications to Wilson, Colbeck and Partners, 86 Old Brompton Road, London, S.W.7, by Feb. 8. Deposit £2 2s.

CLOTHING AND TEXTILES

Aberdeen.—Supply of police uniform greatcoats, jackets, trousers, caps, leather gloves, shirts, collars, ties, skirts and stockings, for Scottish North-Eastern Counties Police Board. Documents from James L. Craig, clerk to the Board, County Buildings, 22 Union Terrace, Aberdeen. Tenders by Feb. 20.

Birmingham.—Supply of uniform caps, for City Transport. Documents from W. H. Smith, general manager, Birmingham City Transport, Council House, Congreve Street, Birmingham, 3. Tenders by Feb. 9.

Bristol.—Following supplies for 12 months commencing April 1, 1960, for City Council: Fire service uniforms; ambulance service uniforms; uniform clothing (general); waterproof clothing; overalls; men's suits and overcoats. Documents from Central Purchasing Department, 2 Upper York Street, St. Paul's, Bristol, 2. Tenders by Feb. 9.

DEMOLITION

Bury, Lancs.—Demolition of 90-102 Bolton Road and 1a Ainsworth Road, for B.C. Documents from Borough Engineer, Town Hall, Bury. Tenders by Feb. 13.

Bury, Lancs.—Demolition of 101 Bolton Street, for B.C. Documents from Borough Engineer, Town Hall, Bury. Tenders by Feb. 13.

Kerrier, Corn.—Demolition to slab level of 22 hutments comprising 34 units of accommodation at Trelanvean, for R.D.C. Documents from W. J. Thomas, clerk of the Council, Council Offices, The Willows, Helston. Deposit £1 1s. Tenders by March 5.

Lanarkshire.—Demolition of houses 91 and 93 Hamilton Road, Cambuslang, for C.C. Applications in writing to D. G. Bannerman county architect, 34 Albert Street, Motherwell, by Jan. 30.

Luton, Beds.—Demolition of a small sewage works at Hyde Road, Caddington, for R.D.C. Documents from the Engineer and Surveyor, 48 Bute Street, Luton. Tenders by March 19.

Sunderland.—Demolition of 99 Low Street, for B.C. Documents from Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £1 1s., cheques payable to Corporation. Tenders by Feb. 16.

ELECTRICAL

Andover, Hants.—Provision, improvement and/or modification of electrical installations in 187 pre-war houses, for B.C. Documents from the Borough Surveyor, Municipal Offices, Beach Hurst, Weyhill Road, Andover. Tenders by Feb. 11.

Brownhills, Staffs.—Electrical installation to the following dwellings, for U.D.C.: Seventy dwellings, Ogley Hay, Brownhills; 72 houses, Leighs Road, High Heath, Pelsall; 25 houses, Leighs Road, High Heath, Pelsall. Documents from Charles H. Hunt, engineer and surveyor, Coombe House, Brownhills. Deposit £1 1s. Tenders by Feb. 15.

Cardiff.—Electrical installation in Llandaff Technical College, third stage, for City Council. Documents from the City Surveyor, City Hall, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by Feb. 19.

Clutton, Som.—Electrical installation for 66 dwellings at Paulton, for R.D.C. Documents from Thomas and Morgan and Partners, architects, 23 Gelliwastad Road, Pontypridd. Deposit £1 1s. Tenders by Feb. 10.

Dagenham, Essex.—Wiring of an additional lighting point on the upstairs landing of 230 properties on the Frizlands estate, for B.C. Documents from the Borough Engineer and Surveyor, Civic Centre, Dagenham. Tenders by Feb. 20.

Dundee, Angus.—Electrical work of alteration to lighting at art rooms, Morgan Academy, for City Council. Documents from City Quantity Surveyor, 21 City Square. Plans seen at the office of the City Architect, 17 City Square. Tenders by Feb. 15.

Fermanagh.—Lighting and heating installation in connection with building alterations at County Health Offices at Castle Barracks, Enniskillen, for County Health Committee. Documents from J. Brown, secretary, Castle Barracks, Enniskillen. Deposit £3 3s. Tenders by Feb. 18.

***Fylde, Lancs.**—Supply of electrical equipment, for Water Board. Tenders by Feb. 19.

Lancashire.—Following, for C.C.: Supply and installation of two electric passenger lifts at Liverpool I.M. Marsh Training College; electrical installations at Tarleton County Secondary School;; electrical installations at Golborne Culcheth County Primary School; supply and erection of closed-type steel shelving in stacks with mezzanine floors, stairs and fire escape at Old Sessions House, Preston. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Feb. 8.

Wallasey, Ches. — Electrical installation, Riverside School, for B.C. Documents from the Borough Architect, Town Hall, Wallasey. Tenders by Feb. 15.

Wisbech, Cambs.—Installation of electric lighting equipment, etc., to the new pumping station in Money Bank, for B.C. Documents from the Engineer, Church Terrace, Wisbech. Tenders by Feb. 17.

FENCING

***Letchworth, Herts.**—Chain link fencing on Grange estate, for U.D.C. Deposit £2 2s. Tenders by Feb. 19.

GAS AND WATER SUPPLY

Alnwick, Northumb.—Supply and laying of water mains to the industrial area, for U.D.C. Documents from G. Beaty, town surveyor, The Council House, Wagonway Road, Alnwick.

Angus.—Following, for C.C.: (a) Lintrathen water supply, contract 7, 100,000 gallons reinforced concrete tank; 20 miles 7in., 6in., 4in., 3in., and 2in. asbestos-cement water mains; (b) Lundie/Auchterhouse/Tealing water supply, contract 3, 25 miles 6in., 4in., 3in., and 2in. asbestos-cement water mains. Applications to County Engineer, County Buildings, Forfar, by Feb. 29.

Chapel-en-le-Frith, Derbys.—Hope Valley water supply, for R.D.C. Laying of approximately 3,000yd. of 6in. asbestos main and for the carrying out of ancillary works. Documents from the Engineer and Surveyor, Council Offices, Hayfield Road, Chapel-en-le-Frith, Stockport. Deposit £2 2s. Tenders by Feb. 12.

***Chelmsford, Essex.**—Water pipes and fittings at new cattle market, for B.C. Tenders by Feb. 12.

***Cirencester, Glos.**—Fairford water supply, for R.D.C. Deposit £5 5s. Tenders by Mach 4.

***Holywell, Flints.**—Holywell water supply, for U.D.C. Deposit £2 2s., cheques payable to U.D.C. Tenders by Feb. 29.

Kingsclere and Whitchurch, Hants.—Laying of 882yd. of 2in. galvanised tube water main at Wheathold Green, Ashford Hill, near Newbury, for R.D.C. Documents from the Surveyor, Council Offices, Kingsclere, Newbury, Berks. Tenders by Feb. 15.

Lincolnshire.—Water mains, Barnoldby-le-Beck, for North-East Lincolnshire Water Board, comprising excavation, laying and jointing of 5,640yd. of 9in. diameter spun-iron water main and 2,650yd. of 4in. diameter asbestos-cement main, together with valves, hydrants, etc. Documents from Cyril Cooper, engineer and manager, Town Hall Square, Grimsby. Tenders by Feb. 15.

Macclesfield, Ches.—Construction of an impounding reservoir of 420,000,000 gallons capacity at Lamaload, for B.C. The contract involves the construction of a concrete buttress dam 600ft. long and 120ft. high and ancillary works. Applications to Walter Isaac, town clerk, Town Hall, Macclesfield, by Feb. 15.

Narberth, Pembs.—Water supply extension, Upper Carvan to Pen-parc, for R.D.C. The works comprise of excavating and refilling trenches in fields and roads, supplying, laying

and jointing 2,650yd. of 3in. diameter spun-iron pipes with joints complete, together with all necessary valves and special fittings and other contingent works. Documents from J. Owen Parry and Lewis, consulting engineers, Arcade Chambers, Ammanford. Deposit £3 3s. payable to R.D.C. Tenders by March 3.

***South Cardiganshire.**—Mainlaying contract 12, for Water Board. Deposit £2 2s. cheque. Tenders by Feb. 26.

South Cardiganshire.—Mynydd Bach service reservoir, contract 13, for Water Board, comprising the construction of a reinforced concrete covered service reservoir with earthen embankments to contain 500,000 gallons, access road thereto, and other ancillary works in connection therewith, at Penuwch, about six miles west of Tregaron and eight miles east of Aberayron. Documents from Rofe and Raffety, 9 Brewer's Green, Buckingham Gate, London, S.W.1. Deposit £2 2s., cheque. Plans also seen at the office of the Engineer to the Board, 36 Alban Square, Aberayron, Cardiganshire. Tenders by Feb. 26.

South Cardiganshire.—Laying of approx. 4,000 yd. of 4in. and 17,000yd. of 3in. asbestos-cement and spun-iron water mains, and incidental works in connection therewith. The lengths of the link mains vary between 3,080yd. and 375yd., contract 23, for Water Board at the following sites: Trefilan, Verwig, Tresaith, Pentregat, Llangranog, Ffynnon Llawddog, Ponthirwaun, Rhydlewis, Capel Cynon, Rhydowen, Pisgah, Ffynnon Berw, Cwmcoy, Adpar, and New Quay. Documents from Rofe and Raffety, engineers, 9 Brewer's Green, Buckingham Gate, Westminster, London, S.W.1. Deposit £2 2s., cheque. Plans also seen at the Offices of the Engineer to the Board, 36 Alban Square, Aberayron. Tenders by Feb. 16.

Wexford, Eire.—Supply and erection of equipment for rapid gravity filter plant capable of treating 12,000 gallons per hour, for C.C. Documents from P. H. McCarthy and Son, consulting engineers, 26 Lower Leeson Street, Dublin. Deposit £5 5s. Tenders by Feb. 27.

HEATING AND VENTILATING

Clutton, Som.—Hot water installations (back boilers) at 1-20 Stockhill, Chilcompton, and 1-16 Compton Martin, for R.D.C. Documents from the Housing Manager, Council Offices, Temple Cloud, Bristol. Tenders by Feb. 17.

***Leeds.**—Heating and hot water services to Menston Hospital, for Regional Hospital Board. Apply by Feb. 10. Deposit £2 2s. Tenders by March 9.

Market Bosworth, Leics.—Installation of solid fuel hot water supplies in 34 pre-war Council houses, for R.D.C. Documents from the Surveyor, Council Offices, Nuneaton. Deposit £1 1s. Tenders by Feb. 16.

Omagh.—Low pressure hot water heating, hot and cold water, mains water, and gas installations in new office building, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Feb. 25.

HOUSING SCHEMES

Barnsley, Yorks.—Contract S.H.4. 100 dwellings, comprising 33 pairs of three-bedroom houses, 10 pairs of two-bedroom houses, and seven pairs of one-bedroom bungalows, at St. Helens estate, for B.C. Documents from the Borough Engineer, Town Hall, Barnsley. Deposit £2 2s. Tenders by Feb. 17.

Barrowford, Lancs.—Following works, for U.D.C.: (a) Approx. 750 lin. ft. pitched and macadam carriageways, together with kerbs, footpaths, foul and surface water sewers; (b) the erection of 24 two-storey flats in four blocks, together with paving and other site works. Documents from the Engineer and Surveyor, Council Offices, Halstead Lane, Barrowford. Deposit £2 2s. each. Tenders by March 4.

Bridge-Blean, Kent.—Erection of two pairs of three-bedroom houses, one block of four flats and one block of four bungalows at Hollow Street, Chislet, and the provision of external services within the curtilage of the dwellings, for R.D.C. Documents from the Council Offices, 41 Old Dover Road, Canterbury. Deposit £2 2s., cheques payable to R.D.C. Plans also seen at the office of H. V. Godfrey, architect, 63 Oxford Street, Whitstable. Tenders by March 7.

Bury St. Edmunds, Suffolk.—Fifteen houses Oliver Road and Willcox Avenue, for B.C. Documents from the Engineer and Surveyor, Borough Offices, Bury St. Edmunds. Deposit £2 2s. Tenders by Feb. 29.

Cardiff.—Thirty one-bedroom flats in two contracts as follows, for City Council: Group 1—Eighteen one-bedroom flats in three blocks at Newborough Avenue, Llanishen; Group 2—12 one-bedroom flats in two blocks at Gabalfa Avenue, Gabalfa. Documents from the City Architect's Department, 12 Park Place, Cardiff. Deposit £2 2s. each contract, cheques payable to Corporation. Tenders by Feb. 16.

Faringdon, Berks.—Following for R.D.C.: (1) Site preparation works, Longworth; (2) erection of four houses and eight bungalows at Longworth; (3) site preparation works, Faringdon; (4) erection of six houses and twelve bungalows at Faringdon. Documents from the Council's Engineer and Surveyor, Council Offices, Market Place, Faringdon. Deposit £2 2s. Tenders, for whole or parts of work, by Feb. 27.

Hartley Wintney, Hants.—Two semi-detached police houses at Hartley Row police station, for Hampshire and Isle of Wight Police Authority. Applications to the County Architect, The Castle, Winchester, by Feb. 15. Deposit £1 1s., cheque payable to the Treasurer of the Police Fund.

Hemsworth, Yorks.—Thirty-four one-bedroom type aged persons' bungalows in the parish of Ryhill, for R.D.C. Documents from S. Price, engineer and surveyor, Brierley, near Barnsley. Deposit £4 4s. Tenders by Feb. 10.

Hertford.—Erection of following, for R.D.C.: (a) Little Amwell, eight Rebecca bungalows, Downfield Road; (b) Tewin, 12 x 3 bedroom houses, four bungalows, and 11 garages at Grass Warren, together with some siteworks in each case. Applications to E. A. Williams, clerk, Wallfield Pegs Lane, Hertford, by Feb. 13. Deposit £2 each contract.

Isle of Wight.—Erection of a single police house adjoining Parklands Children's Home, Park Road, Cowes, for C.C. Applications to the County Architect, County Hall, Newport, I. of W., by Feb. 12. Deposit £2 2s. Tenders by March 9.

Lancashire. — One pair of police houses at Littleborough, for C.C. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Feb. 8.

Ledbury, Heres.—Erection of four old peoples' dwellings at Putley, for R.D.C. Applications to D. B. W. Dykes, clerk, Council Offices, Church Street, Ledbury, by Feb. 12. Deposit £2 2s.

Liverpool.—Following, for City Council: (a) Twelve aged persons' flats, Belem Tower, Aigburth Drive, Liverpool, 17; (b) 23 dwellings, Heath Road, Greenhill Road, Liverpool, 18. Documents from City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2. Deposit £2 2s. each contract, payable to City Treasurer. Tenders by Feb. 18.

Ploughley, Oxon.—Construction of one pair of houses, Merton Way, Yarnton, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Waverley House, Queens Avenue, Bicester. Deposit £2 2s. Tenders by Feb. 19.

Portsmouth. — Following, for City Council: (a) 78 houses, Prospect Farm; (b) three shops, three maisonnettes and six houses, Paulsgrove; (c) 60 traditional garages, Paulsgrove; (d) one house, Fawcett Road. Applications to the City Architect, 1 Western Parade, Portsmouth, by Feb. 10. Deposit £1 each contract.

Port Talbot, Glam.—Thirty-six three-bedroom dwellings at Jersey House site, Baglan, for B.C. Documents from G. V. Griffiths, borough engineer, Municipal Buildings, Port Talbot. Deposit £2 2s. Tenders by Feb. 12.

***Port Talbot, Glam.**—Thirty-six dwellings Jersey House site, for B.C. Deposit £2 2s. Tenders by Feb. 22.

***Rochester.**—Houses and flats Warren Wood redevelopment stage iv, for City Council. Deposit £3 3s. Tenders by March 7.

Scarborough, Yorks.—Twenty-four one-bedroom flats West Place, for B.C. Documents from V. Forshaw, borough and water engineer, Town Hall, Scarborough. Deposit £2 2s. Tenders by Feb. 29.

South Shields, Dur.—One hundred and twenty houses and 43 garages at Simonside, for B.C., comprising 56 two-bedroom terrace houses, 12 corner type flats, 52 three-bedroom semi-detached houses and 43 garages. Documents from the Borough Engineer, Town Hall, South Shields. Deposit £2 2s. Tenders by March 9.

Spilsby, Lincs.—Five bungalows at Maddison Lane, Partney, for R.D.C. Applications to G. F. Taylor, engineer and surveyor, Council Offices, Toynton Hall, Spilsby. Deposit £3 3s., cheque payable to R.D.C. Tenders by Feb. 29.

***Standish - with - Langtree, Lancs.** — Old people's bungalows contract 1, and road and sewer works contract 2, for U.D.C. Deposit £2 2s each contract. Tenders by Feb. 29.

Winchester.—Forty-four dwellings at Winnall Manor estate, contract 6, for City Council. Applications to A. S. Wilson and Partners, quantity surveyors, 8 Storey's Gate, Westminster, S.W.1, by Feb. 11. Deposit £2 2s (cheques payable to Corporation).

MATERIALS AND SUPPLIES

Abingdon, Berks.—Following for the period April 1, 1960, to March 31, 1961, for B.C.: (1) Concrete kerbing and paving slabs, scavenging brooms, rubber boots, sand, ballast, tarmacadam, bitumen macadam, coke and coal; (2) dustbins, sanitary fittings, hardboard, distemper, electric lamps, sundry carpenters' fittings, glass and protective clothing; (3) floorcloths, dusters, mops, cleansing powder, soap and toilet rolls. Documents from the Engineer and Surveyor, The Abbey House, Abingdon. Tenders by Feb. 22.

Airdrie, Lanarks.—Following, for B.C.: (a) Joiners' materials and ironmongery, etc.; (b) paints; (c) paint brushes; (d) plumbers' requisites; (e) medical supplies; (f) cleaning materials; (g) motor car supplies; (h) electric lamps; and (i) builders', slaters', and plasterers' materials for the period from May 16, 1960, to May 15, 1961. Documents from Jas. Taylor, town clerk, Municipal Buildings, Airdrie. Tenders by March 5.

Bangor, Caerns.—Supply of the following materials for a period from April 1, 1960, to March 31, 1961, for City Council: (1) Stone for macadam, tarmacadam and chippings; (2) road surface dressing (tar and cold emulsions). Tenders and contracts will have to conform with the Standing Orders of the Council. Documents from the offices of the City Surveyor, Town Hall, Bangor. Tenders by Feb. 12.

Barnet, Herts.—Following for the year commencing April 1, 1960, for U.D.C.: (1) Shingle, concrete ballast, sand, hoggin; (2) tarmacadam, bituminous topping, fine cold asphalt. Documents from Engineer and Surveyor, Ravenscroft House, Wood Street, Barnet. Tenders by Feb. 11.

Batley, Yorks.—Following during the 12 months ending March 31, 1961, for B.C.: (1) Portland cement; (2) concrete aggregates; (3) concrete kerbs and flags; (4) stone kerbs; (5) quartzite, granite and slag chippings for tarspraying; (6) crushed limestone; (7) tar and bitumen (hot spraying); (8) bituminous cold emulsion; (9) tarmacadam; (10) cold asphalt; (11) hydrated lime; (12) salt-glazed ware pipes; (13) bricks; (14) salt; (15) petrol, oils and lubricants; (16) castings; (17) ironmongery; (18) dustbins and gas boilers; (19) chromium-plated water taps; (20) hand brooms and re-bristling brooms for mechanical road sweeper; (21) ashes and hired haulage. Documents from the Borough Engineer, Hanover Street, Batley. Tenders by Feb. 20.

Benfleet, Essex.—Following goods and services for a period of 12 months commencing April 1, 1960, for U.D.C.: (1) Precast concrete paving and kerbs; (2) cast-iron road covers and gullies; (3) coal and coke, etc.; (4) tarred stone and cold asphalt; (5) cement, lime and salt-glazed pipes; (6) overalls, donkey jackets and rubber boots; (7) sand, gravel, hoggin, hardcore and clinker ash; (8) rebristling brooms for mechanical sweeper; (9) surface dressing of streets; (10) paint, distemper and putty. Documents from the Engineer and Surveyor, Council Offices, Thundersley. Tenders by Feb. 22.

Berwickshire.—Following during the year ending May 15, 1961, for C.C.: (1) Road haulage (in districts); (2) supply and delivery of whinstone rubble, dry chippings, crusher run aggregate, bituminous and tar macadam; (3) supply and delivery of tars and bitumens; (4) tarspraying—direct application; (5) thermoplastic white lines; (6) hire of plant including excavators, shovels, tractors, etc.; (7) supply and delivery of concrete kerbs and flags; (8) chemical spraying of roadsides. Documents from the County Road Surveyor, Southfield, Duns. Tenders by Feb. 27.

Bodmin, Corn.—Following for the year ending March 31, 1961, for B.C.: (1) Disinfectants, insecticides and toilet paper; (2) road brooms; (3) precast concrete products; (4) building materials (excluding paint); (5) building hardware, fittings and fireplaces; (6) roadstone and tarmacadam; (7) supply and installation of electric cookers. Documents from the Borough Surveyor, Municipal Offices, Priory House, Bodmin. Tenders by Feb. 22.

Brierley Hill, Staffs.—Following for the year ending March, 1961, for U.D.C.: Part I—Highways Department: (1) Roadstones, slag and chippings; (2) tarmacadam and bituminous macadam; (3) tar and tar compounds and bituminous emulsion; (4) concrete kerbs and slabs; (5) concrete and stoneware pipes; (6) cast-iron manhole covers, gully grates and frames; (7) shovels and picks; (8) cement and sand; (9) coal; (10) hired transport; (11) labour, plant and tools for laying road materials, i.e., kerbs, pavings, footpaths, etc. (materials supplied by Council); (12) premixed waterbound macadam; (13) ready-mixed concrete; (14) industrial clothing. Part II—Housing Department: (1) Concrete line posts; (2) chimney pots; (3) copper tube fittings; (4) draining boards; (5) gas wash boilers; (6) Claco continuous-burning fires; (7) sheet glass for glazing; (8) rails; (9) paints and distemper; (10) cast-iron gutters and face pipes; (11) sinks; (12) ball valves and floats; (13) glazed tiles; (14) w.c. pans and flushing cisterns; (15) w.c. ring seats. Part III—Public Health Department: (1) Dustbins. Documents from the Engineer and Surveyor,

Civic Buildings, Brierley Hill. Tenders by Feb. 24.

Buteshire.—Supply of road materials for the year ending May 15, 1961, for C.C. Documents from the Clerk, County Offices, Rothsay. Tenders by Feb. 17.

***Caernarvonshire.**—Supply of materials, for C.C. Tenders by Feb. 13.

Cheltenham, Glos.—Supply of cast-iron water pipes and specials, for B.C. Documents from G. Gould Marsland, water engineer, Municipal Offices, Promenade, Cheltenham. Tenders by March 7.

Deal, Kent.—Following, for B.C.: Cold asphalt; tarmacadam; crushed grit; ballast; sand; clinker; refined tar; white rags; dustbins; precast concrete kerbs and flags; manhole covers and frames; scouring powder; soaps; floor polish; toilet rolls; armoured gloves; channel brooms; electric lamps; motor oils; petrol and derv. Documents from the Borough Treasurer, 1a Victoria Road, Deal. Tenders by Feb. 20.

Eastbourne, Sussex.—Following for the 12 months commencing on April 1, 1960, for B.C.: (1) Ballast and sand; (2) cement and lime; (3) granite chippings; (4) tarmacadam; (5) precast concrete paving slabs and kerb; (6) dustbins; (7) brooms and brushes; (8) hired haulage. Documents from the Borough Engineer, 2/4 Saffrons Road, Eastbourne. Tenders by Feb. 20.

East Devon.—Following for the year ending March 31, 1961, for Water Board: (1) Portland cement; (2) sand and gravel; (3) hardcore and pitching; (4) tarmacadam; (5) cast-iron surface boxes; (6) gunmetal stopcocks and ferrules; (7) copper tubing; (8) fittings for copper tubing; (9) polythene plastic tubing; (10) fuel and lubricating oil. Documents from the Engineer to the Board, The Laurels, 46 New Street, Honiton. Tenders by Feb. 22.

Enniskillen, Fermanagh.—Supplying for the twelve months ending March 31, 1961, 10,000 gallons, more or less, of type B tar, viscosity 45/80 Standard 76, 1943, at a fixed price per gallon, delivered free to the Council's Yard Frith's Alley, for B.C. All tar to be delivered in heavy returnable or non-returnable 40-gallon steel drums. The Contractor to be responsible for payment of carriage on empty drums, but the Council will pay for any damage or non-return of drums. Average lot ordered 2,000 gallons, minimum lot 1,000 gallons. The names of two solvent sureties willing to enter into a bond for the due performance of the abovementioned contract must be submitted with each tender. Tenders to Noble J. Connor, Town Clerk's Office, Town Hall, Enniskillen, by Feb. 18.

Great Harwood, Lancs.—Following for twelve months commencing April 1, 1960, for U.D.C.: (1) Sett grouting materials; (2) spraying compounds; (3) pitching stone; (4) granite chippings; (5) precast concrete flags, kerbs, etc.; (6) tarred macadam; (7) street ironwork—manhole covers and gully grates. Documents from the Engineer and Surveyor, Town Hall, Great Harwood. Tenders by March 19.

***Halesowen, Worcs.**—Supply of road materials, for B.C. Tenders by Feb. 20.

Hampstead.—Following for one year from April 1, 1960, for B.C.: Removal of clay and other rubbish; ballast and sand; artificial footway paving; slag tarmacadam; brooms. Documents from Town Clerk, Town Hall, Haverstock Hill, N.W.3. Tenders by Feb. 26.

Lancaster.—Following for the 12 months commencing April 1, 1960, for City Council: Brushes; manhole covers, gully gratings and iron castings; gravel and sand; cement; bitumen macadam; concrete flags, kerbs and channels; road stones and chippings; sandstone flags and kerbs; iron water pipes and special castings. Documents from the City Engineer, Town Hall, Lancaster. Tenders by Feb. 19.

Lymington, Hants.—Following for the period of 12 months ending March 31, 1961, for B.C.: (a) Road materials; (b) concrete commodities; (c) sanitary requirements; (d) building items; (f) manhole covers, gully grates, etc.; (g) petrol, derv and gas oil; (h) white spirit, creosote, putty, etc. Documents from the Borough Engineer, Town Hall, Lymington. Tenders by Feb. 22.

***Maesteg, Glam.**—Supply of materials, for U.D.C. Tenders by Feb. 20.

Monmouthshire. — Supply of paint for the 12 months ending Mar. 31, 1961, for C.C. Documents from S. Leyshon, county architect, Queen's Hill, Newport, Mon. Tenders by Feb. 15.

Morley, Yorks.—Following for the year ending March 31, 1961, for B.C.: (1) Bituminous and tarred granite and limestone; (2) dry granite, limestone and quartzite chippings; (3) concrete aggregates; (4) pea gravel (for road gritting); (5) Portland cement; (6) salt (for road purposes); (7) Yorkshire stone flags, kerb and edging; (8) concrete flags, kerb and edging; (9) earthenware pipes and gullies; (10) sewerage ironwork; (11) brooms for street sweeping; (12) bitumen emulsion; (13) bitumen and tar supplied and sprayed on roads; (14) cold asphalt. Documents from the Borough Engineer's Office, Town Hall, Morley. Tenders by Feb. 9.

***Mossley, Lancs.**—Supply of materials, for B.C. Tenders by Feb. 22.

Norwich.—Supply of the following for the year commencing April 1, 1960, for City Council: Bitumen granite; disinfectant; precast concrete, kerbs, flags and edging; Portland cement; sand, shingle, etc.; salt glazed ware pipes, fittings, gullies, etc.; manhole covers and frames; scavenging brooms; hot rolled asphalt (including laying); ironmongery; hire of motor cars and lorries; hard bar soap; electric lamps; washing soda; metal polish; torch batteries; toilet rolls; floor polish; floor cloths; dusters; scouring powder; motor spirit, boiler fuel oil, etc.; cold asphalt (mixing plant to be within 25-mile radius of Norwich). Documents from the City Engineer, City Hall, Norwich, Nor 01A. Tenders by Feb. 13.

Poole, Dorset.—Following during period April 1, 1960, to March 31, 1961, for B.C.: (1) Tarred macadam and bituminous macadam; (2) asphaltic bituminous macadam and fine cold asphalt; (3) road tar mixture and bituminous compound; (4) heating and planing road surfaces; (5) road stone and chippings; (6) concrete gravel,, sand, etc.; (7) concrete paving slabs; (8) precast kerbing, channelling, concrete fencing posts, etc.; (9) concrete and stoneware pipes and fittings; (10) motor tyres, tubes and remoulds; (11) hire of road rollers and plant; (12) hire of motor lorries; (13) road traffic signs, etc.; (14) ironmongery, tools, cleaning goods, etc.; (15) brooms, brushes, etc.; (16) waterproof clothing, overalls, rubber boots, gloves, etc.; (17) iron castings, manhole covers, etc.; (18) motor spirit, burning oil, etc.; (19) lubricating oils, etc.; (20) house coal and coke and firewood; (22) cement, etc.; (23) electric wiring supplies, accessories and time-switches; (24) electric lamps; (25) batteries; (26) street lighting lanterns (electric); (28) electric water heaters; (29) gas mantles; (30) gas lighting sundries (fittings, etc.); (31) gas lighting glassware; (32) purchase of glass bottles, jars, etc., from disposal works. Documents from Borough Engineer, Municipal Buildings, Poole, Tenders by Feb. 15.

***Prescot, Lancs.**—Supply of road materials, for U.D.C. Tenders by Feb. 13.

Rainford, Lancs. — Supply of broken stone, ashes, concrete flags and kerbs, tarmacadam, earthenware pipes, gullies, etc., for year ending March 31, 1961, for U.D.C. Documents from the Surveyor, Council Offices, Rainford, upon receipt of stamped addressed envelope. Tenders by Feb. 13.

Southampton.—Following for the 12 months commencing April 1, 1960, for B.C.: Ballast and grit; gravel and sand; concrete paving slabs; concrete kerb and channel; natural stone kerb; granite chippings; bitumen road emulsion; bitumen compound (supplied and applied); road tar (supplied and applied); tarred macadam; stoneware pipes and fittings; cleaning rags, waste and mutton cloth; iron castings; scavenging brooms. Documents from Borough Engineer, Civic Centre, Southampton. Tenders by Feb. 10.

Stevenage, Herts.—Following for the year commencing April 1, 1960, for U.D.C.: (a) Tarred granite; (b) gravel asphalt; (c) bitumen macadam; (d) cold emulsion; (e) cold asphalt; (f) dustbins; (g) concrete slabs; (h) concrete kerbs; (i) cement; (j) sand; (k) ballast. Documents from J. D. Marshall, engineer and surveyor, Council Offices, Orchard Road, Stevenage. Tenders by Feb. 12.

Urmston, Lancs. — Following, for U.D.C.: (1) Concrete kerb and channel blocks; (2) concrete flags; (3) tarmacadam; (4) bituminous macadam; (5) chippings; (6) sand; (7) broken stone; (8) cement; (9) lime mortar; (10) salt-glazed pipes and gully pots; (11) lubricating oil; (12) petrol and paraffin; (13) derv, gas oil and light fuel oil. Documents from the Engineer and Surveyor, Council Offices, Crofts Bank Road, Urmston, near Manchester. Tenders by Feb. 13.

Usk, Mon.—Following approximate quantities of stone for delivery to Peterstone Wentlooge, near Newport, for River Board: Large blockstone, 9,200 tons; small stone, 6,700 tons; chippings, 1,500 tons. Documents from G. McLeod, engineer, The Croft, Caerleon. Tenders by Feb. 27.

Walthamstow, Essex.—Following for the year ending March 31, 1961, for B.C.: (1) Plumbers' goods; (2) general ironmongery; (3) painters' sundries; (4) plastering and roofing materials; (5) painters' brushes; (6) sheet glass; (7) cleft chestnut fencing; (8) sand and ballast; (9) paint; (10) salt-glazed ware, pipes and fittings. Documents from the Borough Architect, Town Hall, Walthamstow, E.17. Tenders by Feb. 26.

Wath-upon-Dearne, Yorks.—Following, for the year ending March 31, 1961, for U.D.C: (1) Builders' materials; (2) plumbers' goods; (3) timber; (4) salt-glazed ware; (5) concrete pipes; (6) road materials (including kerbs); (7) petrol, diesel and lubricating oils, etc. Documents from the Engineer and Surveyor, Town Hall, Wath-upon-Dearne, Rotherham. Tenders by March 1.

Worsley, Lancs.—Supply of 500 2½ cu. ft. B.S.S. dustbins with lids, to be delivered in lots of 100 as required, for U.D.C. Tenders in plain sealed envelopes endorsed "Tenders —Dustbins" to Robert E. Huband, clerk of the Council, Town Hall, Walkden, Manchester, by Feb. 13.

PLANT AND MECHANICAL TRANSPORT

Bath, Som.—Supply of eight transformers for road heating, in specially constructed weatherproof outer cases, for City Council. Documents from the City and Waterworks Engineer, Guildhall, Bath. Tenders by Feb. 12.

Inverness.—Supply of one 2-ton S.W.B. end-tipper lorry, for B.C. The present vehicle (1948 Bedford end-tipper) to be taken in part exchange, can be inspected by arrangement with the Parks Superintendent, 118 Glen Urquhart Road, Inverness. Tenders marked "Parks Department Lorry," to J. Cameron, town clerk, Town House, Inverness, by Feb. 9.

Kent.—Supply and erection of four electrically driven vertical spindle axial flow pumps, each of 50 cusecs capacity, required for the Little Stour pumping station, which is to be constructed near Stourmouth, approximately seven miles north-east of Canterbury, for River Board. Applications in writing to the Engineer to the Board, 78 College Road, Maidstone.

Loughborough, Leics.—Supply and delivery of one Karrier Bantam refuse wagon with 11ft. 5in. wheelbase chassis and equipped as follows, for B.C.: Six-seater crew-type cab; Rootes light diesel engine; four speed gear box; hydraulic brakes; 12 volt electrical equipment; 27in. x 6in. tyres; front shock absorbers; special front and rear springs; all steel 10 cu. yd. refuse body and tipping gear; painted and lettered; fitted with number plates. Tenders to Arthur Usher, town clerk, Southfields, Loughborough, by Feb. 16.

Manchester. — Supply of two 11ft. 9in. Karrier Gamecock standard diesel engine chassis and scuttles, for City Council. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by Feb. 10.

Mexborough, Yorks.—Following, for U.D.C.: Supply of one new 2-ton Karrier Bantam light diesel engine, standard highways tipper, complete with number plates, painting, and lettering, and delivery charges, subject to allowance for Austin 15cwt. Omnivan, 1957. The Omnivan may be inspected at the Housing Department, Hallgate, Mexborough, at any time. Tenders to S. H. E. Crane, clerk of the Council, Hallgate Mexborough, by Feb. 15.

North Shields, Northumb. — Supply and erection of three 6-ton portal electric cargo cranes at the Tyne Commission Quay, Albert Edward Dock, North Shields, for Tyne Improvement Commission. Documents from the Secretary, Tyne Improvement Commission, Bewick Street, Newcastle upon Tyne, 1. Tenders by March 8.

St. Albans, Herts. — Supply and delivery of six refuse collection vehicles, with a capacity of, or equal to, 25-30 cu. yd., for City Council. The vehicles are to be complete with all the usual fittings, accompanied by the makers' specification, full dimensions, painted and lettered, together with delivery date. Delivery may be staggered over a period not exceeding six months. Tenders, in envelopes endorsed "Refuse Collection Vehicles," to B. V. Entwistle, clerk, 38 St. Peter's Street, St. Albans, by Feb. 15.

Staffordshire.—Supply of following, for C.C.: (a) One Bedford truck fitted with Pattisson parkover gear; (b) five Ransome gang mower cutter units; (c) six 24in. Denn's motor mowers; (d) three 14in. Atco motor mowers; (e) three Lloyds Ariel lightweight sidewheel motor mowers. Documents from the Director of Education (P.F.), Education Office, Earl Street, Stafford. Tenders by Feb. 15.

PLAYING FIELDS, PARKS, ETC.

Dudley, Worcs.—Following, for B.C.: (a) School playing field at Sycamore Green; (b) finishing works on Old Park Farm estate, comprising (a) 3,800 lin. yd. of bulk excavation, sub soil drainage; 9,000 sq. yd. of turfing, and 1,100 sq. yd. of 2in. tramacadam-asphalt footpath; (b) 4,300 cu. yd. of bulk excavation; 3,750 sq. yd. of tarmacadam asphalt surfacing; 12,300 sq. yd. of seeding, and 11,400 sq. yd. of turfing. Applications to the Borough Engineer, The Council House, Priory Road, Dudley, by Feb. 9. Deposit £2 2s. each contract.

Kidsgrove, Staffs.—Complete reconstruction of Clough Hall Football Field, for U.D.C. The works comprise the breaking-up of the existing surface,, drainage, filling to low

areas, grading, soiling and seeding. Documents from the Engineer and Surveyor, Town Hall, Kidsgrove, Stoke-on-Trent. Deposit £2 2s. Tenders by Feb. 17.

Leatherhead, Surrey. — Cutting and trimming of approximately 11 acres of verges and greens in small areas throughout 1960 season, for U.D.C. Documents from the Engineer and Surveyor's Department, Red House, Leatherhead. Tenders by Feb. 20.

Rochdale, Lancs. — Construction of playing fields at Kingsway, for B.C. Documents from Borough Surveyor, Town Hall, Rochdale. Tenders by Feb. 23.

Swansea.—Layout of grounds as Clase and Bonymaen County Primary Schools, for B.C. The work includes excavation, filling, removal of surplus material, levelling, tilthing and seeding, with subsoil drainage and other contingent works over an area of approx. 34,300 and 17,500 sq. yd. respectively. Documents from J. Owen Parry and Lewis, civil engineers, Arcade Chambers, College Street, Ammanford, South Wales. Deposit £5 5s, payable to Consulting Engineers. Tenders by Feb. 29.

Wandsworth.—Maintenance of garden surrounds to 14 housing estates, total area approximately 36 acres, for B.C. Documents from the Borough Engineer, Municipal Buildings, Wandsworth, S.W.18. Tenders by Feb. 10.

ROADS, BRIDGES AND SITE WORKS

Barnet, Herts.—Installation of concrete footbaths, showers and other works at the Council's sports pavilion, Grasvenor Avenue, for U.D.C. Documents from Engineer and Surveyor, Ravenscroft House, Wood Street, Barnet. Tenders by Feb. 20.

Barrow-in-Furness, Lancs.—Bulk excavation and filling of approx. 7,500 cu. yd. for roads and open spaces on North Walney housing estates, third development, first section, for B.C., comprising hedge removal, soil stripping over line of new roads and open spaces, and excavation to formation level on roads to be constructed for housing development, and incidental works. Maximum depth of excavation will approximately be 3ft. over an area of approx. three acres of grassland. Documents from J. N. Flitcroft, surveyor, Town Hall, Barrow-in-Furness. Tenders by Feb. 8.

***Berkshire.**—Private street works 1 and 2, for C.C. Deposit £2 each contract. Tenders by Feb. 12.

Birmingham.—Surface Dressing, in tar and bitumen of various roads in the City during 1960, for City Council. Documents from Sir Herbert J. Manzoni, city engineer and surveyor, Civic Centre, Birmingham. Deposit £2 2s., cheques payable to City Council. Tenders by Feb 15.

Birmingham.—Reconstruction of carriageways and footways and the construction of foul water sewers, together with incidental works, in Aston Hall Road (part), between Witton Lane and Priory Road, for City Council. Documents from Sir Herbert J. Manzoni, engineer and surveyor, Civic Centre, Birmingham, 1. Deposit £2 2s., cheques payable to City Engineer. Tenders by Feb. 17.

Buckinghamshire.—Making of surveys, together with plans and sections, of 13 private streets having an approximate total length of 5,350 lin. yd., situated in the Amersham Eton and High Wycombe areas, for C.C. Documents from the Surveyor, County Offices, Aylesbury. Deposit £2. Tenders by Feb. 22.

***Cardiff.**—Advance preparation works Llanrumney housing scheme No. 5, for City Council. Deposit £2 2s., cheques payable to Corporation. Tenders by Feb. 19.

Chester.—Construction of roadworks and drainage at Parkway, Saughall, for R.D.C. Documens from T. C. R. Eaton, architect, 16 White Friars, Chester. Deposit £3 3s. (cheques payable to R.D.C.). Tenders by by Feb. 23.

Cwmbran, Mon.—Lightwood housing site, completion works, for U.D.C., comprising the final surfacing of 373 sq. yd. of carriageway, construction of 329 sq. yd. of bituminous macadam footways, 457 sq. yd. of flagged footways, 341 lin. yd. of precast concrete kerbs, and the soiling and seeding of 3,777 sq. yd. of grassed areas and other ancillary works. Documents from the Engineer and Surveyor, Council Offices, Cwmbran. Deposit £3 3s. Tenders by Feb. 15.

***Deal, Kent.**—Reconstruction of Deal Castle Road and Prince of Wales Terrace, for B.C. Deposit £2 2s. Tenders by Feb. 15.

Dumfries.—Widening of Irish Street, for B.C. Work involves the construction of approx. 140 lin. yd. of concrete kerbing and channels, 300 sq. yd. of footpaths. 180 sq. yd. of carriageway, stone walling, and other incidental works. Documents from R. S. Osborne, burgh surveyor, Municipal Chambers, Dumfries. Tenders by Feb. 15.

Dundee. — Construction of three non-attention hard tennis courts at Lochee Park, for B.C. Documents from the Parks Superintendent, 17 City Square, Dundee. Tenders by Feb. 13.

Dun Laoghaire, Eire.—Resurfacing of Glenageary Road, Lower and Upper Glenageary Road (section C), for B.C. The work comprises: (1) Laying of 13,672 sq. yd. of hot rolled asphalt, including construction of 3,018 sq. yd. of concrete road base; (2) construction of 2,934 sq. yd. of new concrete footpaths and the overlaying with concrete of 1,727 sq. yd. of existing footpaths; (3) laying of 217 lin. yd. of 6in. and 9in. concrete and spun-iron pipes for surface water drainage; (4) de-scaling 830 lin. yd. of existing 6in. water main; (5) other incidental works. Documents from the Town Clerk, Town Hall, Dun Laoghaire. Deposit £10. Tenders by Feb. 16.

***Easthampstead, Berks.**—Concrete garage bases, access roads and ancillary works at Fern Bank Place, for R.D.C. Deposit £2 2s. Tenders by Feb. 25.

East Suffolk.—Following works for Bradwell V.C.P. School (near Great Yarmouth), for C.C., comprising site works, foundations, services, decorations, etc., in connection with a prefabricated timber four-class primary school. Drawings seen at the County Hall, Ipswich, or at the existing school at Bradwell, between 9 a.m. and 4 p.m. Building contractors wishing to tender should submit their names to the County Architect, County Hall, Ipswich, by Feb. 8. From the names submitted a number of builders will be selected and these will be furnished with bills of quantities, etc., on or about Feb. 15; builders not selected will be notified at the same time. Tenders by March 11.

***Erith, Kent.**—Improvement of Picardy Street, for B.C. Deposit £2 2s. Tenders by Feb. 19.

Farnham, Surrey.—Road and drainage works at Lower South View, Farnham, as follows, for U.D.C.: Approximately 200 lin. yd. of 6in. sewer; approximately 600 super. yd. carriageway foundation and 200 lin. yd. concrete kerb. Documents from the Engineer and Surveyor, Council Offices, South Street, Farnham. Deposit £2 2s. Tenders by March 3.

Fifeshire.—Site survey for sinking bores at the site of a proposed new bridge in Glenrothes, for C.C. Documents from the County Surveyor, Belfield, Millgate, Cupar, Fife. Tenders by Feb. 25.

Frinton and Walton, Essex.—Surface dressing of various roads within the district, totalling approx. 30,000 sq. yd., for U.D.C. Documents from Engineer and Surveyor, The Council House, Frinton-on-Sea. Tenders by Feb. 22.

Gipping, Suffolk.—Following works, for R.D.C.: (1) The provision of concrete paths for a total of 28 houses in the parishes of Ashbocking, Battisford, Creeting St. Mary and Creeting St. Peter; (2) the modernisation of two houses at Stonham Parva. Documents from the Engineer and Surveyor, Council Offices, Needham Market. Deposit £1 1s. Tenders by Feb. 10.

Gloucestershire.—Two hundred and seventy lin. yd. improvement of 18ft. carriageway plus two kerbed footpaths, including approx. 300 cu. yd. excavation, 270 super. yd. brick walling, drainage, etc., at Chapel Hall Lane, for C.C. Documents from the County Surveyor, Quay Street, Gloucester. Tenders by Feb. 15.

Grange-over-Sands, Lancs.—Excavation and levelling of site and building of foundations for twelve looseboxes to be erected at Cartmel, for Cartmel Steeplechases, Ltd. Documents from Pain and Charles Blease, chartered surveyors, 82 Cotton Exchange Buildings, Liverpool, 3.

***Halesowen, Worcs.**—Surface dressing roads and footpaths, for B.C. Tenders by Feb. 20.

Harlow, Essex. — Construction of road .E6 from just north of the newly constructed Burnt Mill Railway Bridge to the Sawbridgeworth-Hertford road, A.414, for Development Corporation, comprising construction of approximately 470yd. of new road with a 24ft. carriageway including the formation of embankment, a 68ft. span bridge over the Stort Navigation and a 64ft. span bridge over the River Stort, drainage and other ancillary works. Documents from the Chief Engineer, Harlow Development Corporation, Terlings, Harlow. Deposit £10. Tenders by Feb. 29.

Harlow, Essex.—Construction of an access road off Harberts Road into Northbrooks playing fields, for U.D.C. The work consists of providing a 13ft. wide access road in flexible construction approximately 275ft. in length, together with a car park of 300 sq. yd. area. Appurtenant works include footpaths and surface water drainage. Documents from A. W. R. Webb, engineer and surveyor, Netteswell Hall, Harlow. Deposit £2 2s., cheques payable to U.D.C. Tenders by Feb. 13.

Hatfield, Herts.—Construction of a new road, sewers, traffic signals and ancillary works consisting of approximately the following, for the Development Corporation: 7,200 super yd. carriageway with lean-mix concrete foundation, and tarmacadam surface; 3,300 super. yd. tarmacadam footways; 2,000 lin. yd. 8in. x 6in. precast concrete kerbs; 850 lin. yd. 9in. dia. concrete surface water sewer; ten concrete manholes; 50 concrete gullies; one set traffic control signals. Documents from the Chief Engineer at 4 Wigmores South, Howardsgate, Welwyn Garden City. Plans may be inspected during normal office hours at the Area Office, 30-34 Market Place, Hatfield. Tenders by Feb. 22.

Inverness. — Following works, for B.C.: (1) Formation and surfacing of turning circle at South Kessock Pier; (2) resurfacing in hot rolled asphalt of approaches to temporary bridge. Documents from the Burgh Surveyor, Town House, Inverness. Tenders by Feb. 13.

Inverness-shire. — Construction of access roads at Portree housing site, for C.C. Documents from the County Surveyor, County Buildings, Ardross Street, Inverness. Tenders by Feb. 17.

Kendal, Westmor.—Construction of the roads and sewers required in connection with the development of approximately 20 acres of land as an industrial area at Shap Road, for B.C. Documents from Engineer and Surveyor, Municipal Offices, Lowther Street, Kendal. Deposit £2 2s. Tenders by Feb. 18.

Lancashire.—Following, for C.C.: Roadworks and bridgeworks in the extension of the Widnes Approach Road, contract B, from the termination of contract A northwards towards Ditton Road. The roadworks comprise about 210 lin. yd. of the Widnes Approach Road and about 270 lin. yd. of a Slip Road leading to the trading estate. The bridgeworks comprise the construction of a two-span bridge, 123ft. long over private sidings, a single 77ft. span bridge over a main line railway, and a reinforced concrete retaining wall 285ft. long. The Decks consist of steel girders carrying a reinforced concrete road slab, and the abutments and wing walls are of brick-faced mass concrete. All foundations are supported on bored cast in-situ piles. Documents from County Surveyor, P.O. Box 9, County Hall, Preston. Deposit £25, cheques payable to C.C. Tenders by March 7.

Llanfyllin, Monts.—Following works, for R.D.C.: (a) Repairs to roads and footpaths at Maesglas, Llanfair Caereinion; (b) erection of three garages at Llys Rhysnant, Llandysilio. Documents from Ll. O. Evans, surveyor to the Council, Council Offices, Llanfyllin. Deposit £1 1s. each tender. Tenders by Feb. 15.

Londonderry.—Reconstruction and resurfacing of classified and trunk roads, for C.C. Documents from the County Surveyor, Courthouse, Coleraine. Deposit £5 each contract. Tenders by Feb. 19.

Mablethorpe and Sutton, Lincs.—Street works, Victoria estate, Sutton-on-Sea, for U.D.C., comprising construction of approx. 90yd. of new tarmac road, 19ft. overall width with footpath and surface water drainage; the rehabilitation of existing concrete highway (approx. 130yd. in length), including the relaying of footpaths, repair of existing surface water drainage and the filling-in of dyke, and extension of an existing concrete road, involving the laying of approx. 85 sq. yd. concrete. Documents from the Council Offices, Mablethorpe. Deposit £2 2s. Tenders by Feb. 13.

Malden and Coombe, Surrey.—Removing the asphalt surface, breaking out as necessary defective concrete carriageway and replacing with new, and resurfacing with hot rolled asphalt of 1,500 sq. yd. of Burlington Road, section 1, for B.C. Documents from John Apse, engineer and surveyor, Municipal Offices, New Malden. Tenders by Feb. 12.

***Neston, Ches.**—Roads and sewers Clayhill housing estate, for U.D.C. Tenders by Feb. 20.

***Newcastle upon Tyne.**—Bored piling to seven blocks of flats, for City Council. Tenders by March 3.

***Padiham, Lancs.**—Construction of roads and sewers, for U.D.C. Deposit £1 1s. Tenders by Feb. 24.

Peterborough.—Small roadworks and reinstatements 1960-61, for City Council. Documents from L. H. Robjohn, engineer and surveyor, Town Hall, Peterborough. Deposit £2. Tenders by Feb. 23.

Pewsey, Wilts.—Construction of a car park off North Street, for R.D.C. The work includes levelling and earth moving by machinery and tarmacadam surfacing. Documents from Engineer and Surveyor, Council Offices, Pewsey Tenders by Feb. 24.

***Reading, Berks.**—Footways at Blagdon Road housing estate, for B.C. Deposit £2 2s., cheques payable to Corporation. Tenders by Feb. 22.

***Reading Berks.**—Cattle market car park, for B.C. Deposit £2 2s., cheques payable to Corporation. Tenders by March 1.

Redcar, Yorks.—Construction of Mersey Road from Corporation Road to Troutbeck Road and parts of Trent Road, Thames Road and Buttermere Road, for B.C., comprising approx. 7,250 sq. yd. of flexible carriageway

construction together with kerbing, channelling, gullies and precast concrete paving. Documents from the Engineer, Municipal Buildings, Redcar. Deposit £2 2s. Tenders by Feb. 13.

Salisbury and Wilton, Wilts.—Construction of main site works in the village of Fovant, consisting of a tarmacadam road, footpaths, drains and water main, for R.D.C. Documents from C. S. Brown, clerk of the Council, Council Offices, 26 Endless Street, Salisbury. Deposit £2 2s. Plans seen at the offices of the architects, Bothams and Brown, 32 Chipper Lane, Salisbury. Tenders by March 10.

Shipley, Yorks.—Construction of following streets, for U.D.C.: Section 1—Springswood Avenue, 103yd.; Back Springswood Avenue, 108yd.; Lynton Drive, 255yd. Section II—Victoria Avenue, 150yd. Documents from the Surveyor, Town Hall, Shipley. Deposit £1 1s. Tenders by Feb. 12.

Southport, Lancs.—Proposed roundabout, Lord Street/Manchester Road junction, for B.C. comprising (a) the provision and laying of the foundation and base course to the carriageway; or (b) the provision of materials only for the construction of the foundation and basecourse to the carriageway. Approx. 1,550 sq. yd. of carriageway are to be constructed having a two-course premixed water bound macadam fondation of 8in. consolidated thickness and a bituminous macadam or a hot rolled asphalt basecourse of 2in. consolidated thickness. Documents from the Borough Engineer's Office. Town Hall, Southport. Deposit £1 1s., cheques payable to Southport Corporation. Tenders by Feb. 15.

***Stoke-on-Trent.**—Road works A and B, for City Council. Deposit £2 each contract. Tenders by Feb. 10.

Swansea.—Carrying out of private street works in Peniel Road, Treboeth, for B.C., comprising 467 sq. yd. of reshaping existing carriageway foundation and bituminous macadam base coat; 842 sq. yd. of bituminous macadam top coat, and miscellaneous footpath and other works. Documents from the Engineer and Surveyor, Guildhall, Swansea. Deposit £2. Tenders by Feb. 25.

Swansea.—Following for the period April 1, 1960, to March 31, 1961, for B.C.: (a) Supplying and laying two-coat rolled asphalt paving on carriageways and footways; (b) supplying and laying by Barber-Greene machine on prepared surfaces 1in. and 3in. consolidated bituminous macadam in carriageways. Documents from the Engineer and Surveyor, Guildhall, Swansea. Tenders by Feb. 24.

Swansea.—Roadworks in St. John's Road, Manselton, for B.C., comprising 615 cu. yd. of excavation, 2,278 sq. yd. of bituminous macadam surfacing on existing hardcore, 261 lin. yd. kerbing, 392 sq. yd. of concrete flag paving, together with verges, surface water drainage, lighting and other incidental works. Documents from Engineer and Surveyor, St. Faith's Hall, St. Helen's Road, Swansea. Deposit £2. Tenders by Feb. 25.

***Uxbridge, Middx.**—Reconstruction of Church Street and High Street, for B.C. Apply by Feb. 12.

Walthamstow, Essex.—Construction of the improvement of the junction of Wood Street with Lea Bridge Road, for B.C., comprising the widening and resurfacing of the existing carriageway, the construction of a short super-elevated curve, together with kerbing footway verge drainage and other ancillary works, over a length of approximately 130yd. Documents from the Architect, Town Hall, Forest Road, Walthamstow. Deposit £2 2s. Tenders by Feb. 22.

***Winchester.**—Road works 1, 2 and 3, for City Council. Deposit £2 2s. each contract. Tenders by March 4.

Worcester.—Improvement works at McIntyre Road, St. John's cemetery, for City Council. Works comprise laying of approximately 150yd. of kerbing and the surfacing of approximately 750 sq. yd. of roadway in fine cold asphalt, together with appurtenant works. Documents from the City Engineer, 22 Bridge Street, Worcester. Tenders by Feb. 12.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

***Abingdon, Berks.**—Sewage disposal works and main drainage of Marcham, for R.D.C. Deposit £5 5s., cheques payable to R.D.C. Tenders by March 7.

Ballymoney, Antrim.—Supply and delivery to the Dervock sewage treatment works of plant comprising pumps, settlement tank, filter bed and digestion tank equipment, etc., for R.D.C. Documents from R. Robinson and Sons, Riada House, Ballymoney. Tenders by Feb. 12.

***Barnes, Surrey.**—Rocks Lane surface water sewer, for B.C. Tenders by Feb. 26.

Basingstoke, Hants. — Main drainage of Basing, B5 contract 3, for R.D.C., comprising construction of approximately 10,000yd. of small diameter sewers and rising main, the construction of a sewage pumping station, extensions to an existing sewage disposal works and other ancillary works. Documents from the offices of Howard Humphreys and Sons, consulting engineers, Victoria Station House, Victoria Street, Westminster, S.W.1, by Feb. 19. Deposit £5 5s. (cheques payable to R.D.C.). Plans also seen at the Council Offices, Eastlands, London Road, Basingstoke, by appointment with the Surveyor. Tenders by Feb. 29.

***Bridge-Blean, Kent.**—Sewage disposal works Hollow Street, for R.D.C. Deposit £2 2s., cheques payable to R.D.C. Tenders by March 7.

Bullingdon, Oxon.—Following, for R.D.C.: (1) Sewer extension, Old Road, Wheatley—approximately 850yd. of 6in. sewer, together with ancillary works; (2) improvement works, school premises, Towersey — conversion of main building into two dwellings and the provision of bathroom to the school house, together with drainage and ancillary works; (3) sanitary improvements—provision and improvement of sanitary accommodation and certain drainage work to 1-4 The Croft, Marsh Baldon, and 1-6 Ford Lane, Drayton St. Leonard. Documents from Engineer and Surveyor, Arlington House, 76 Banbury Road, Oxford. Deposit £2 2s. each contract. Tenders by Feb. 22.

Chesterfield, Derbys.—Following schemes, for R.D.C.: (i) Sewer extension, Yorkshire Tar Distillers, comprising 850 yd. of 9in. diameter pipe, together with manholes; (ii) Pear Tree Road housing estate, Pilsley, comprising approx. 180 lin. yd. of 6in. diameter sewer 100yd. of 24in. diameter sewer, and 2,000 sq. yd. of tarmacadam carriageways, together with incidental works; (iii) Pipworth Lane sewerage scheme, Eckington, comprising approx. 333yd. of 6in. diameter pipe, together with manholes, and additional works to existing pumping station. Documents from J. B. Wikeley, engineer and surveyor, Rural Council House, Saltergate, Chesterfield. Deposit £2 2s each scheme, cheque. Tenders by Feb. 13.

***Chislehurst and Sidcup, Kent.**—Surface water sewer Elmstead Lane, for U.D.C. Tenders by Feb. 8.

Clacton, Essex.—Western area drainage, sea outfall, contract 7, comprising the construction of the following works, for U.D.C.: (a) 36in. diameter cast- and spun-iron outfall sewer, of which some 5,000ft. will be laid in trench inshore and some 2,000ft. will be laid across the foreshore and in the sea bed, also in trench; (b) extension of a 51in. diameter steel outfall sewer some 230ft. The outfall will be laid in trench, and the work extends from a point near the low water mark. The contract also includes for the removal and disposal of an existing 12in. diameter outfall sewer consisting partly of stoneware pipes surrounded by concrete and partly of cast-iron pipes supported on cast-iron piles. Documents from John Taylor and Sons, consulting engineers, Artillery House, Artillery Row, Westminster, S.W.1. Deposit £5 (cheques payable to U.D.C.). Plans also seen at the office of the Engineer and Surveyor, Town Hall, Clacton-on-Sea. Tenders by Feb. 29.

***Dewsbury, Yorks.**—Main drainage of Old Bank Road, for B.C. Deposit £2 2s. Tenders by Feb. 11.

***Dorking and Horley, Surrey.**—Sewage disposal works extensions contract 4, for R.D.C. Deposit £5 5s., cheques payable to R.D.C. Tenders by March 9.

Guisborough, Yorks.—Lackenby and South Lackenby sewerage, for U.D.C. Work provides for furnishing and laying of about 1,150 lin. yd. of 9in. and 6in. earthenware pipe sewers, complete with manholes, etc., and other appurtenant works. Applications to D. Balfour and Sons, consulting engineers, Caledonian Buildings, 145 Pilgrim Street, Newcastle upon Tyne, 1, by Feb. 15. Deposit £5, by cheque.

***Huddersfield.**—Widening and reconstruction of sewer at Lockwood Scar, for B.C. Deposit £3 3s. Tenders by Feb. 17.

Ipswich, Suffolk.—Ejector station replacement scheme, for B.C. Construction of five reinforced concrete pumping stations, superstructures to the same, one motor house, and approx. 1,250 lin. yd. of spun-iron rising main, together with sewerage and ancillary works. Documents from the Engineer and Surveyor, 19 Tower Street, Ipswich. Deposit £5 5s. cheque. Tenders by Feb. 29.

Llanelly, Carms.—Construction of a pumping station at the North Dock, and extension of an existing pumping station at Sandy, including rising mains and sewer extensions, for R.D.C. Documents from R. C. Jones, engineer, Castle Buildings, Llanelly. Deposit £5 5s. Tenders by Feb. 18.

Londonderry. — Laying of approximately 1,024 lin. ft. of 9in. diameter stoneware sewer and other incidental works at Dunfield Terrace, Strabane Old Road, for City Council. Documents from the City Engineer and Surveyor, 5 Guildhall Street, Londonderry. Deposit £5 5s., cheques payable to City Accountant. Tenders by Feb. 27.

***Maldon, Essex.**—Main sewerage contract 3, for B.C. Deposit £2 2s. Tenders by March 3.

Manchester.—Diversion of Egerton sewer, for City Council. Laying 137 lin. yd. of concrete tube sewer and brick manholes and the filling of 225 lin. yd. of brick sewer. Documents from the City Surveyor, Town Hall Manchester, 2. Tenders by Feb. 10.

***Market Harborough, Leics.** — Mowsley Laughton and Gumley sewerage, for R.D.C. Deposit £5 5s. Tenders by Feb. 29.

***Newbury, Berks.**—Two centrifugal pumps to sewage pumping station, for B.C. Tenders by Feb. 24.

Oxford. — Construction of a foul sewer outfall for Blackbird Leys development, for City Council. Work includes the following: (a) 1,125 lin. yd. of 18in. diameter concrete pipe sewer; (b) 154 lin. yd. of 12in. diameter glazed stoneware pipe sewer; (c) 15 precast concrete manholes. Documents from the City Engineer, Town Hall, Oxford. Tenders by Fe b. 18.

Rochdale, Lancs.—Extension of a sewer adjoining Bagslate Moor Methodist Church, Norden, for B.C. Documents from Borough Surveyor, Town Hall, Rochdale. Tenders by Feb. 12.

***Ruislip and Northwood, Middx.**—Surface water drainage works, for U.D.C. Deposit £2 2s. Tenders by March 7.

St. Albans. — Making-up, sewering and paving of Mount Drive and The Rise, comprising the following works, for City Council: 1,608 lin. yd of 6in. and 9in. diameter g.s. sewers; 3,208 sq. yd. of bitumen macadam carriageway; 1,897 sq. yd. a.s. paving. Documents from the Engineer and Surveyor, 16 St. Peter's Street, St. Albans. Tenders by Feb. 22.

Sheffield. — Blackburn Meadows works, reconstruction and extensions phase II, for City Council. The new work will include ancillary mechanical plant as follows: Contract B.M. (R.S.) 21, electrically driven air blowers, capacity 400 c.f.m. at 8lb per sq. in.; contract B.M. (R.S.) 22, disintegrators for sewage screenings; contract B.M. (R.S.) 23, grit pumping plant, pumps each 450 gallons per minute; contract B.M. (R.S.) 24, sparge water pumping plant, pumps each 300 gallons per minute; contract B.M. (R.S.) 25, electrically operated penstocks, 12 about 5ft. wide by 6ft. deep. Applications in writing to Jas. H. Edmondson, general manager and engineer, Sewage Disposal Department, Wincobank, Sheffield, 9. Deposit £3 3s. Tenders by Feb. 12.

Southam, Worcs. — Following, for R.D.C.: (1) Long Itchington, contract 7—approximately 3,650yd. of 9in. and 6in. diameter sewers, 950yd. of 4in. diameter iron pipe pumping mains, the construction of two pumping stations, two additional bacterial filters, sludge drying beds and incidental work; (2) Priors Marston, contract 1—approximately 3,100yd. of 9in. and 6in. diameter sewers, the construction of treatment works, including pumping station, settling tanks, sludge drying beds and incidental work; (3) Stockton, contract 8—approximately 2,500yd. of 9in. and 6in. diameter sewers and incidental work. Written applications to Richards and Dumbleton, Cornwall Buildings, 45 Newhall Street, Birmingham, 3. Deposit £3 3s. each contract, by cheque, payable to R.D.C. Tenders by Feb. 27.

South Cambridgeshire. — Construction of sewage disposal works; drainage (260 lin. yd. approximately) and incidental work at Thriplow, for R.D.C. Documents from Architect and Surveyor, County Hall, Hobson Street, Cambridge. Deposit £2 2s., cheques payable to R.D.C. Tenders by Feb. 16.

Stretford, Lancs.—Culverting of a portion of Longford Brook in Lostock Clough, Stretford, including incidental drainage works, for B.C. Documents from A. H. Perry, borough surveyor, Town Hall, Stretford. Deposit £2 2s. Tenders by Feb. 9.

Swindon, Wilts. — Broome Link scheme, for B.C. The works, which it is hoped will commence in April and extend over a period of 18 months, will include the laying of approximately two miles of 18in. and 24in. diameter sewer, and the construction of a 171ft. diameter mass concrete balancing tank. Applications, together with brief details of similar work recently carried out, including the names of the engineers responsible, to the Borough Engineer and Surveyor, Civic Offices, Swindon, by Feb. 12.

Thurso, Caithness.—Forming a new concrete gutter along 40yd. of the east side of Traill Street, supplying and laying 40yd. of 15in. concrete pipe, constructing manholes, and associated work, for B.C. Documents from Gilbert Thomson and Son, 164 Bath Street, Glasgow, C.2. Deposit £2 2s. Tenders by Feb. 23.

Ulverston, Lancs.—Laying of approximately 205 lin. yd. of 6in. diameter glazed earthenware pipes, 91 lin. yd. of 6in. diameter class

B cast-iron pipes, together with the construction of two manholes at Cross-a-Moor, for R.D.C. Documents from H. Whittaker, engineer, 24 Queen Street, Ulverston. Tenders by Feb. 10.

Wednesfield, Staffs.—Provision of surface water outlets on the Ashmore Park estate, for U.D.C., comprising approx. 560 lin. yd. of 15-24in. dia. spigot and socket precast concrete pipes, including construction of necessary manholes, and other incidental works. Documents from Thos. A. Peacock, engineer and surveyor, Penhurst, 29 Bolton Road, Wednesfield. Deposit £2 2s. Tenders by Feb. 15.

Wokingham, Berks.—Main drainage of Woodley, stage III, for R.D.C. Laying of approximately 1,150 lin. yd. of 6in. salt-glazed ware sewers, 1,150 lin. yd. of 7in. and 9in. spun-iron pipes, 1,350 lin. yd. of 33in. to 48in. precast concrete tubes, the construction of one pumping station and 38 manholes, the widening and deepening of 950 lin. yd. of ditch, and ancillary works. Documents from Chief Engineer, Council Offices, Shute End, Wokingham. Deposit £3 3s. Tenders by Feb. 22.

Yeovil, Som.—West Street relief sewer, for B.C., comprising the laying of approx. 110yd. of 24in. diameter sewer and the construction of an overflow chamber. Applications to A. Heal, borough surveyor, Municipal Offices, Yeovil, by Feb. 8.

STREET LIGHTING

Chesterton, Cambs.—Supply and erection of 28 group A sodium street lamps on concrete columns in the parish of Caxton, for R.D.C. Documents from W. H. Hayward, clerk, Council Offices, County Hall, Hobson Street, Cambridge. Deposit £2 2s. Tenders by Feb. 22.

Enniskillen, Fermanagh.—Street lighting at Sligo Road—eight fluorescent lamps, for R.D.C. Documents from A. Stephenson, engineer and surveyor, Council Offices, Cornagrade, Enniskillen. Deposit £2 2s. Tenders by Feb. 12.

***Leckhampton, Glos.**—Street lighting trunk road, A.46, for Parish Council. Tenders by March 1.

***Leicestershire.**—Street lighting at Thurmaston By-pass roundabout, for C.C. Deposit £2. Tenders by Feb. 12.

Newport, Mon.—Erection and painting of steel lamp columns and the provision and setting into operation of a system of sodium lighting units, including laying of underground cables in Kingsway (part) and Chepstow Road (part), for B.C. Documents from the Borough Engineer, Civic Centre, Newport. Deposit £2 2s., payable to Borough Treasurer. Tenders by Feb. 15.

Rhyl, Flints.—Supply and erection of the following, for U.D.C.: (i) Forty-five reinforced concrete columns, nine wall brackets, 53 lanterns with 3/80-W fluorescent lamps and gear, one post top lantern with 4/80-W fluorescent lamps and gear, four lanterns with 2/80-W fluorescent lamps and gear; (ii) 64 reinforced concrete columns, 64 lanterns with 140-W sodium diescharge lamps and gear. Documents from the Surveyor, Council Offices, Rhyl. Tenders by Feb. 15.

Stirling.—Glasgow-Stirling trunk road A.80—proposed extension of group A lighting at Whins of Milton, for C.C., comprising (a) the supply and erection of eight reinforced concrete columns and six pole-mounting brackets, together with 14 lanterns, 140-W sodium vapour lamps and sets of auxiliary gear, and (b) the supply and erection of control equipment and approximately 122yd. of two-wire overhead service line. Documents from James D. Kennedy, county clerk, County Offices, Viewforth, Stirling. Tenders by Feb. 15.

Whitchurch, Glam.—Supply and erection of street lighting installations on Manor Way, from the junction with Caedelyn Road to the junction with Pendwyallt Road, being the second section of the Whitchurch By-pass, for Parish Council. Documents from F. G. Harris, clerk of the Council, Council Offices, Bishop's Road, Whitchurch, Cardiff. Tenders by Feb. 15.

INTERNATIONAL CONTRACTS

***Ceylon, India.**—Supply of purification plant, for the Government. Deposit £50 and tender fee £5. Tenders by May 4.

Madras, India.—Supply of two 5-ton Portal cranes. Lifts above/below rail level are 50/45ft. approx. Maximum radius 65ft., for Port Trust. Documents from the Deputy Chief Accounts Officer (Engineering), Chief Engineer's Office, Madras Port Trust, Madras, India, on payment of £1 10s. per set. Specifications available for examination at India Store Department, Engineering Branch, Bromyard Avenue, Acton, London, W.3. Tenders by April 27.

AWARDS

BUILDING AND DECORATING
(See also Housing Schemes)

Acton, Middx.—First stage of a new pathological laboratory and outpatient department extension at Central Middlesex Hospital, for North West Metropolitan Regional Hospital Board: W. H. Gaze and Sons, Ltd., 19 High Street, Kingston-on-Thames, Surrey. Estimated cost £40,000.

Ashton-under-Lyne, Lancs.—Provision of dispensary at General Hospital, for Manchester Regional Hospital Board: Septimus Taylor and Son, Ltd., Greenwood Street, Oldham, £11,562 (recommended).

Barrow-in-Furness, Lancs.—Provision of new operating theatre unit at North Lonsdale Hospital, for Manchester Regional Hospital Board: F. Parkinson, Ltd., Mowbray Drive, Blackpool, £53,969 (recommended).

Belfast.—Following, for City Council, Donald A. Shanks, education architect: Construction of dining centre at Sandbrook Park—Wm. Grace and Co., 135-141 Templemore Avenue, Belfast.

Erection of kitchen and dining hall at St. Thomas' Voluntary School, Whiterock Road. D. J. McRandal, architect, 17 Malone Road, Belfast: A. McGlone and Sons, 14 Andersonstown Road, Belfast.

Birmingham.—Erection of 18 shops with 40 flats above at Warwick Road/Station Road/Oxford Road, Acocks Gren, for Second City Properties, Ltd. J. H. D. Madin, architect, 83 and 85 Hagley Road, Five Ways, Edgbaston, and W. Hiles and Son, quantity surveyors, 177 Corporation Street: Tersons, Ltd., Grove House, Sutton New Road, Erdingington, Birmingham, 23.

Erection of seven shops and six maisonnettes at Coventry Road, for Coronet Cinema (Small Heath), Ltd.—C. Bryant and Sons, Ltd., 65 Whitmore Road, Birmingham, £26,000.

Birmingham.—Following works, for the Regional Hospital Board: Improvements to the outpatients' department at the Birmingham and Midland Eye Hospital—J. and T. Walsh (Contractors), Ltd., 25 Russell Road, Birmingham, 28, £9,277; builders' work in connection with the provision of bed lifts to blocks D. E. M. and V. and interior decorations to B block at Summerfield Hospital—C. Green and Sons, Ltd., 132 Monument Road, Edgbaston, Birmingham, 16, £9,984, and Sargent Bros. (Builders and Decorators), Ltd., 23 Gerrard Street, Birmingham, 19, £1,153, respectively; erection of connecting corridor and day space between C and D blocks and renovation of building and roof repairs at Highcroft Hospital: W. H. Roberts, Ltd., 49 Hutton Road, Birmingham, 20, £13,349, and C. Green and Sons, Ltd., £1,288, respectively builders' work for the provision of central heating installation, etc., at the Midland Hospital (Eastcote Grange)—Hampton and Sheldon Building Co., Ltd., Fentham Road, Hampton-in-Arden, Solihull, £2,106; exterior painting at St. Margaret's Hospital—G. Stubbings, Ltd., Streetly Road, Erdington, Birmingham, 23, £1,478; exterior painting at Chelmsley Hospital—A. C. Watkins and Son, Ltd., 165 Lozells Road, Birmingham, 19, £2,156; replacement of autoclaves and sterilisation suites in the maternity department and provision of nurses' covered way at Dudley Road Hospital—C. F. Thackray, Ltd., £18,696, and F. Deeley, Ltd., 210 High Street, Harborne, Birmingham, £2,350, respectively; interior decorations at Marston Green Maternity Hospital, Birmingham and Midland Ear and Throat Hospital and the Birmingham Accident Hospital—Whiteman Decorations, Ltd., 179 Gravelly Lane, Erdington, Birmingham, 23, £1,080, A. Seers and Sons, Ltd., 164 Broad Street, Birmingham, £1,049 and J. Patrick and Co., 115 Anderton Road, Birmingham, 11, £3,674, respectively; relaying wooden floor in J block and builders' work on the boiler-house at Selly Oak Hospital—Marshall Davis and Co., Ltd., 38 High Street, Sutton Coldfield, £1,354, and Maddocks and Walford, Ltd., Tyburn Road, Birmingham, 24, £1,930, respectively; extension to casualty department at Dudley Road Hospital—W. H. Roberts, Ltd., 49 Hutton Road, Birmingham, 20, £824; alterations and improvements to 15 and 16 Park Road West to provide additional accommodation for the Women's Hospital—Jenks (Builders), Ltd., 82 Stafford Street, Wolverhampton, £1,608 (recommended).

Conversion of existing emergency theatre into dispensary at Burton Road Hospital and adaptations to kitchen and block 5 to provide additional accommodation at West Heath Hospital: Direct Labour (recommended). Estimated cost £1,000 and £750, respectively.

Blackpool, Lancs.—New pathology laboratory at Victoria Hospital, for Manchester Regional Hospital Board: J. R. Fenton, Ltd., Chaunce Street, Blackpool, £56,853 (recommended).

Bognor Regis, Sussex.—Improvements to 47 houses in Collyer Avenue, 40 in Hampshire Avenue and Gravits Lane, and 29 in Westloats Lane and Westloats Gardens, for U.D.C.: J. Summersell, Ltd., 35 Wyndham Road, Petworth, Sussex.

Bolton, Lancs.—Provision of sanitary block, Barnes and Cooper wards, Royal Infirmary, for Manchester Regional Hospital Board: Stanley Porter, Ltd., Crofts Sawmills, Bolton, £12,310 (recommended).

Bradford, Yorks.—Alterations to resident medical officers' quarters at St. Luke's Hospital, for the Leeds Regional Hospital Board: R. Townson, Ltd., Owler Ings Road, Brighouse, Yorks., £26,956.

Brighton, Sussex.—Following works, for B.C.: Alterations and additions to public abattoir—McKellar and Westerman, Ltd., 143 Church Road, Hove, 3, £38,900 (recommended); A. J. Construction Co., Ltd., £38,998; Jeffery and Sons (Hove), Ltd., £40,852.

Erection of five seafront shelters—Jeffery and Sons (Hove), Ltd., 206 Portland Road, Hove, 3, £18,431 (recommended); Gates and Sons, Ltd., £18,741; McKellar and Westerman, Ltd., £20,954.

Alteration and extension of the housing department's offices in Grand Parade—McKellar and Westerman, Ltd., £6,628 (recommended); A.J. Construction Co., Ltd., £6,729; T. J. Braybon and Sons, Ltd., £6,930; A. C. Jenkins, Ltd., £7,042; E. Jeffery and Partners, Ltd., £7,283; Jeffery and Sons (Hove), Ltd., £7,597; H. A. Pocock, Ltd., £9,242; F. T. Wilson and Sons, Ltd., £9,740.

Additional storage accommodation at the chemist's shop at 372 Carden Avenue—McKellar and Westerman, Ltd., £485 (recommended); Elliott Bros. (Brighton), Ltd., £578.

Bromsgrove, Worcs.—Following works, for the Birmingham Regional Hospital Board: (a) Provision of wooden hut for use as nurses' changing accommodation, and (b) alterations to operating theatre suite at the General Hospital—(a) Dalbukirk, Ltd., 67a New Street, Birmingham, 2, £3,151, and (b) R. H. Horton (Engineers), Ltd., Delph Road, Brierley Hill, £10,248; exterior repairs and painting of farm houses, and buildings at Barnsley Hall Hospital—T. Projects, Ltd., 4 Lion Street, Kidderminster, £1,552 (recommended).

Cornwall.—Erection of a home for frail ambulant persons at Camborne, for C.C.: F. Kenneth Hicklin, county architect: J. W. Spencer, Ltd., 14 Trewirgie Road, Redruth, £53,205. Work has commenced.

Crewkerne, Som.—Erection of a factory at Blacknell Lane, for Sterling Industries, Ltd., Boden Works, Chard. E. Spriggs and Partners, quantity surveyors, 2 South Audley Street, London, W.1: James Crosby and Sons, Ltd., 59 Queens Gardens, Lancaster Gate, London, W.2. Work has commenced.

Doncaster, Yorks.—Erection of lavatory and welfare accommodation at Rossington Market, for R.D.C.: R. Dunkerley and Sons, 9 Highfield Road, Doncaster, £1,714.

Down.—Extension of Irish Cables' factory, Newcastle, for Ministry of Commerce. W. D. R. and R. T. Taggart, architects, 13 College Gardens, Belfast; George McNeil, quantity surveyor, 29 Wellington Place, Belfast; Barrett and Agnew, consulting engineers, 420 Ravenhill Road, Belfast: John Linton, Ltd., Market Street, Tandragee, Co. Armagh.

Durham.—Renewal of large section of main corridor floor at Dryburn Hospital, for Newcastle Regional Hospital Board: G. M. Tyre Co., Ltd., Sunderland.

Gosforth, Northumb.—Provision of library and reading room at St. Nicholas' Hospital, for Newcastle Regional Hospital Board: Stephen Easten, Ltd., Westgate Grange, Westgate Road, Newcastle upon Tyne, £3,268.

Hartlepool, Dur.—Erection of new Brunswick Hotel at Milbank Crescent, for J. W. Cameron and Co., Ltd. C. L. Heslop, architect, 7 Upper Church Street, West Hartlepool: C. M. Yuill, Ltd., Villiers Street, West Hartlepool.

Herefordshire.—Erection of a new w.c. block in brick and timber construction at Ross County Primary School, for C.C. W. Usher, county architect: J. Robbins and Sons, Weston-under-Penyard, Ross-on-Wye, Heres. Work about to commence.

Holyhead, Anglesey.—Erection of an advance factory at Turkey Shore, for The Wales and Monmouthshire Industrial Estates, Ltd., Pontypridd. S. Colwyn Foulkes, architect, Pwllycrochan Avenue, Colwyn Bay. E. C.

Harris and Partners, 7/12 Tavistock Square, London, W.C.1: Wm. Cowlin and Son, Ltd., Penarth Road, Cardiff. Estimated cost £80,000.

Hull.—Alterations and additions to the heating and domestic hot water installation in the new changing rooms and showers at Ainthorpe High School, for City Council: E. G. Hill and Co., Ltd., rear 22 Lambert Street, Kingston-upon-Hull.

Kirkburton, Yorks.—Construction of a garage site and hardstanding (excluding garage buildings) behind the bus terminus, for U.D.C. Ian E. Mercer, engineer and surveyor: Briggs and Partner, Ltd., The Storth, Huddersfield Road, Elland, £1,056 (accepted); Wm. Prestwich and Sons, Ltd., £1,171; Leslie Hine, £1,629. Work about to commence.

Leamington Spa, War. — Exterior painting at Weston Hospital, for the Birmingham Regional Hospital Board: A. Matts and Son, Ltd., Vecqueray Street, Coventry, £1,215 (recommended).

Leek, Staffs. — (a) Interior painting of nurses' home and (b) reglazing of enclosed verandas, wards 6 and 17, at St. Edwards Hospital, Cheddleton, for the Birmingham Regional Hospital Board: (a) Mollatts (Hanley), Ltd., 2 Hillchurch Street, Hanley, Stoke-on-Trent, £1,500, and (b) H. Hope and Sons, Ltd., 34 Gordon Chambers, Cheapside, Hanley, Stoke-on-Trent, £1,176 (recommended).

Leicester.—Erection of an old people's home at junction of Narborough Road and Braunstone Lane, for City Council: Sherriff and Co. (1943), Ltd., Barkby Road, Leicester, £59,940 (recommended).

Leytonstone, Essex.—Erection of offices at 560 High Road, for Pearl Assurance Co., Ltd. W. J. Lewis and Sons, architects, 68 Cranbrook Road, Ilford—F. R. Freeman, Ltd., 13-14 Chapel Street, London, N.W.1.

Lichfield, Staffs.—Flooring to male and female wards at St. Matthews Hospital, Burntwood, for the Birmingham Regional Hospital Board: J. A. Hewetson and Co., Ltd., 222 Lode Lane, Solihull, £1,858 (recommended).

London. — Reconstruction of buildings at Mansion House Station, for London Transport. Work provides for rebuilding of booking office, buffet and staff rooms: L. and W. Whitehead, Ltd., 169 Clapham Road, London, S.W.9. Estimated cost £72,000.

Manchester.—Improvement of ward sanitation at Park Hospital, Davyhulme, and extensions to pathology laboratory at Withington Hospital, for Regional Hospital Board: Peter Hodkinson, Ltd., Devonshire Street, Manchester, 12, £23,549, and Robert Carlyle and Co., Ltd., Elsinore Road, Old Trafford, Manchester, 16, £69,155, respectively (recommended).

Mansfield, Notts.—Four brick garages at Lochbuie, for B.C.: Direct Labour (recommended). Estimated cost £600.

Middlesbrough, Yorks.—Erection of maternity and child welfare centre at Carlow Street, for B.C. J. A. Kenyon, borough engineer: Marsh (Builders), Ltd., Grangefield Road, Stockton-on-Tees, £14,639.

Proposed Greenway Hotel at Thorntree, for J. W. Cameron and Co., Ltd. E. M. Lawson, architect, Barras Buildings, Barras Bridge, Newcastle upon Tyne: Snowdon Bros., Darlington.

Newcastle upon Tyne.—Provision of additional sanitary accommodation at Pendower Technical High School for Girls, for E.C.: Morris Bros., Whitefield Terrace, Newcastle, £2,537.

Nottingham.—Following works, for City Council: Erection of a classroom unity community centre at Farnborough Road, Clifton—Vic Hallam, Ltd., Valley Works, Langley Mill, £11,746; pavilion at Charnock Avenue playing field—W. Appleby and Son, 177 Castle Boulevard, Nottingham, £8,440; demolition of existing structure and erection of new building to house The Midland Design and Building Centre, Ltd., at the Regent Hall site at the junction of Mansfield Road and Peachey Street—Thomas Bow (Nottingham), Ltd., 45 Lamartine Street, Nottingham, £52,912 (recommended).

Four - classroom instalment at St. Edward's Roman Catholic Primary School, for the Church Authorities—Sweeney and Palmer, Ltd., Beechdale Road, Aspley, Nottingham, £19,816 (negotiated tender).

Plymouth.—Following works, for City Council: 21 stores, etc, for flats and shops at Cornwall Street—F. J. Stanbury, Ltd., Alexandra Works, Alexandra Road, Plymouth, £1,755; three additional classrooms and two practical rooms at Whitleigh Secondary School—Carkeek and Sons, Ltd., 14-15 Gilwell Street, Plymouth, £18,673 (recommended).

Redcar, Yorks.—Erection of new grammar school, for North Riding E.C. J. Leathart and Son, 49 Welbeck Street, London, W.1: Charles Tennet (Contractors), Ltd., 74 Church Road, Stockton, £132,000.

Redditch, Worcs.—Redecorations, repairs and improvements at Smallwood Hospital, for the Birmingham Regional Hospital Board: Howard Hill (Plumbing Contractors), Ltd., 136 Evesham Road, Redditch, £1,606 (recommended).

Rugby, War.—Erection of a pavilion at Bilton Recreation Ground, for B.C.: G. W. Deeley, Ltd., Coventry, £4,896 (recommended).

Southampton. — Following works, for B.C.: Construction of a pavilion and public convenience at Green Park, stage I—Johns and Harris, Briarwood Mill Road, Fareham, £5,203; erection of a staff canteen at the bus centre, Pound Tree Road:—G. Carter and Sons, Ltd., £2,077; provision of 87 garages at various housing sites—Woolaway Constructions, Ltd., 11 Canon Street, Taunton, £19,387 (recommended, subject to Ministry approval).

South Shields, Dur.—Factory extension (2,400 sq. ft.) at the Simonside Works of Wright and Weaire, Ltd. Newrick and Blackbell, architects, 58 John Street, Sunderland: Tate and Holmes, Ltd., Benwell, Newcastle upon Tyne.

Stafford.—Modernisation of female ward kitchens at St. George's Hospital, for the Birmingham Regional Hospital Board: Hopkins and Nixon, Canal Wharf, Radford Bank, Stafford, £2,387 (recommended).

Stockton-on-Tees, Dur.—Construction of warehouse at Haverton Hill Road, for J. Wilson and Bros., Ltd., Sunderland: G. Fordy and Son, Boathouse Lane, Stockton-on-Tees.

Erection of warehouse and garage at Portrack Lane, for J. Russell and Sons, Ltd., Oxford Street, Stockton: G. Fordy and Son, Boathouse Lane, Stockton-on-Tees.

Erection of hotel at Hardwick, for J. W. Cameron and Co., Ltd. R. Cowan, architect, 20 Finkle Street, Stockton: R. E. Coleman, Ltd., Western Hill, Durham.

Stoke-on-Trent, Staffs. — Provision of a toddlers' cloakroom and toilets at the day nursery, Belgrave House, Dresden, for City Council: Direct Labour, £1,985 (recommended).

Stoke-on-Trent, Staffs.—Provision of lift shaft in a block of the City General Hospital, for the Birmingham Regional Hospital Board: A. L. Pedley, and Co., Ltd., 697 Leek Road, Hanley, Stoke-on-Trent, £2,840 (recommended).

Sutton Coldfield, War.—Provision of twin operating theatres and X-ray department at Good Hope Hospital, for the Birmingham Regional Hospital Board: Thomas Lowe and Sons, Ltd., Curzon Street, Burton-on-Trent, £90,343 (recommended).

Tipton, Staffs.—Supply and erection of prefabricated concrete shedding at Brook Street depot, for B.C.: Marley Concrete, Ltd., Sevenoaks, £579 (recommended).

Wandsworth.—Erection of a six-storey block of flats at 26 Palace Road, Streatham. Malcolm Peck, Roberts and Associates, architects, 15 Friary Street, Guildford, Surrey: Frank R. Freeman, Ltd., 13-14 Chapel Street, London, N.W.1. Estimated cost £75,000.

Wanstead and Woodford, Essex.—Following works, for B.C.: Repairs to 1 Clarendon Road and 5 Waverley Road—Thompson, Saunders and Co., Ltd., £1,070; repairs and alterations to 41/43 Buckingham Road—J. and F. Hill, 15 Mount Pleasant Road, London, S.E.13, £750 (recommended).

Wolverhampton, Staffs. — Following works, for the Birmingham Regional Hospital Board: (a) Provision of extension to minor treatment department, and (b) site exploration work in connection with provision of block of four operating theatres at the Royal Hospital—E. Warren Baxter, Ltd., Willenhall Road, Wolverhampton, £11,822, and (b) Ground Explorations, Ltd., 75 Uxbridge Road, London, W.5, £291; improvements to ward 7 and general repairs to wards 1-6 at New Cross Hospital — K. S. Rock, Ltd., Little Pountney Street, Wolverhampton, £1,146, and W. Gough and Sons, Ltd., 129 Horseley Fields, Wolverhampton, £3,350, respectively (recommended).

Woolwich. — Improvements and conversion works at various properties, for B.C.: MacDonnell and Sons, Ltd., £6,868; H. T. Oliver and Sons, Ltd., 371 Clapham Road, London, S.W.9, £7,421; Whyatt (Builders), Ltd., 225 Streatham High Road, London, S.W.16, £30,638 (all recommended).

Worcester.—Following works, for Birmingham Regional Hospital Board: Builders' work in connection with installation of coal-handling plant at the Royal Infirmary—T. Oliver (Builders), Ltd., St. Martins Works, James Street, Worcester, £1,989; exterior painting and building repairs at Powick Hospital—T. Powles and Son, Ltd., 119 Malvern Common, Malvern, £2,193 (recommended).

Yeovil, Som.—Erection of a factory at Larkhill, for C. and J. Clark, Ltd. Venning and Hope, quantity surveyors, 16 The Crescent, Taunton; Sir Alexander Gibb and Partners, consulting engineers, Queen Anne's Lodge, Westminster, S.W.: D. Singleton and Son, Central Road, Yeovil. Estimated cost £100,000. Work about to commence.

DEMOLITION

Chester.—Demolition of properties at (a) the William Street area, and (b) Trafford Street, for City Council: D. Ward (Demolition), Ltd., (a) £1,270 and (b) £645, respectively (recommended).

Nottingham. — Sneinton area, demolition contract 21, 1, 2-6 and 26-30 Thoresby Street, 1a-13 Pennyfoot Street and 51 Poplar Street, for City Council: S. Pinder and Sons, Ltd., Church Street, Old Basford, Nottingham, £620 (recommended).

Southampton.—(a) Demolition of 130-142 Commercial Road, and (b) 22 Bevois Valley Road, weather-proofing the flank wall to 20 Bevois Valley Road and clearing the adjoining sites, for B.C.: (a) Southern Salvage Demolition, 25 Priory Street, Denys, Southampton, £625, and (b) Treloar and Sons, £200 (recommended).

Surbiton, Surrey. — Correction. — In our issue of Jan. 21 it was reported that the tender of Anglo-Scottish Construction Co., Ltd., had been accepted for works at Hollyfield County Secondary School. These works were in fact completed some time ago.

Woolwich.—Demolition of following properties, for B.C.: 127-151 Frances Street, 57-61 Samuel Street, 92-96 and 102-114 Kingsman Street, 36-44 John Wilson Street, and 227 Kingsman Street—W. H. Penfold and Sons, Ltd., Belmont Grove, London, S.E.13, £593; 27-37 Belson Road, 1-5 North Kent Place, 18-21 North Kent Grove, 78-90 Kingsman Street, 64-78 Frances Street—J. W. Doye and Co., 188 Plumstead High Street, London, S.E.18, £650; 14 Bexley Road—Gorst and Co., Ltd., 33 Floyd Road, London, S.E.7, £47; Woolwich Empire Theatre at Beresford Street—E. W. Spears and Co., Ltd., £935 (all recommended).

ELECTRICAL

Birmingham.—Modifications to electrical installations at 15 and 16 Park Road West, for the Regional Hospital Board: Direct Labour (recommended). Estimated cost £937.

Brighton, Sussex. — Supply of sterilisation equipment, for B.C.: Wallace and Tiernan, Ltd., Power Street, Chiswick, London, W.4, £3,996 (recommended).

Farnworth, Lancs.—Electrical installation in 140 houses, Plodder Lane South, site 2, for B.C.: Simmons Electrical Contracting Co., Chadderton, £4,200 (recommended).

Fleetwood, Lancs.—Installation of bed lift at Rossall Hospital, for Manchester Regional Hospital Board: Roger Eaves and Son, Ltd., London Street, Fleetwood, £5,500 (recommended).

Hereford.—Electrical work in connection with improvements to engineering services at Burghill Hospital, for the Birmingham Regional Hospital Board: Lee Beesley and Co., Ltd., 6 Warwick Row, Coventry, £8,500 (recommended).

Kidderminster, Worcs.—Rewiring of houses at Gheluvelt Avenue and Hurcott Road, for B.C.: Knight and Bradley, Stourport-on-Severn, £765 (recommended).

Leek, Staffs.—Electrical rewiring, phase VI, at St. Edward's Hospital, Cheddleton, for the Birmingham Regional Hospital Board: W. Lucy and Co., Ltd., £2,419 (recommended).

Nuneaton, War.—Installation of bed/passenger/goods lift at the George Eliot Hospital, for the Birmingham Regional Hospital Board: G. E. and W. Wincott, Ltd., 64 Coton Road, Nuneaton, £3,998 (recommended).

Oswestry, Salop.—Completion of ring main distribution system and associated feeders at the Robert Jones and Agnes Hunt Orthopaedic Hospital, for the Birmingham Regional Hospital Board: H. Pratt, Ltd., Potters Lane, Aston Close, Birmingham, 6, £4,672 (recommended).

Stoke-on-Trent, Staffs.—Following works, for City Council: Electrical installation at the Adult Training Centre, Cemetery Road, Shelton—E. Holloway, Ltd., 18 Hartshill Road, Stoke-on-Trent, £8,667; supply and installation of one electric bed/passenger lift in the old people's home at Blurton estate—Keighley Lifts, Ltd., 5 Cross Street, Manchester, 2, £3,487 (recommended).

FENCING

Belfast. — Erection of fencing at Orangefield playing fields, for City Council. Donald A. Shanks, education architect: Abraham and Walker, Ltd., Kernan, Portadown.

GAS AND WATER SUPPLY

Llandovery, Carms.—Work at the Tonn borehole, including the provision of a water treatment plant and two new pumps, for B.C.: Hussey Egan and Pickmere, Ltd., East End Works, Pembroke, £10,012.

Mildenhall, Suffolk.—Laying of some 5,000yd. of 3in. diameter cast-iron water main, with valves, hydrants and service pipes, in the five extensions of water mains in the areas of Mildenhall, Undley, Red Lodge and Beck Row, for R.D.C. F. W. Sanders, engineer and surveyor: Edward J. Edwards, Ltd., Plumstead Road, Norwich, £8,725. Work about to commence.

Nottingham. — Following works, for City Council: Construction of the Oxton reservoir No. 2, which will have a nominal capacity of 6,000,000 gallons — Thomas Fletcher and Co., Ltd., Forest Road, Mansfield; pumping machinery required for the new Markham Clinton pumping station—W. H. Allen, Sons and Co., Ltd., Queens Engineering Works, Bedford, £119,445 (recommended).

Nuneaton, War. — Supply of pipes for the extension of water to Meadowside estate, for B.C.: Stanton Ironworks Co., Ltd., near Nottingham (recommended). Estimated cost £1,100.

Rugby, War.—Supply of (a) 736yd. of 4in. pipes and 123 4in. flexible joints, and (b) 2,723yd. of 3in. pipes and 680 3in. flexible joints for the Featherbed Farm estate, for B.C.: (a) Stanton Ironworks Co., Ltd., near Nottingham, and (b) Staveley Iron and Chemical Co., Ltd., near Chesterfield (recommended). Estimated cost £550 and £1,670, respectively.

Stanley, Yorks.—Laying of 400yd. 3in. water main from Snow Hill along Bradford Road to Wakefield boundary, for U.D.C.: Direct Labour (subject to Ministry approval). Estimated cost £1,400.

Thorne, Yorks. — Sixty-six houses on the South Common estate, for R.D.C. T. H. Johnson and Sons, architects, 6 South Parade, Doncaster: Robert Dunkerley and Sons, Ltd., Doncaster, £88,745 (subject to Ministry approval); Frank Haslam, Milan and Co., Ltd., £89,187; Farmer and O'Neill, Ltd., £89,393; Thomas Coggan and Co., Ltd., £90,191; Harlow and Milner, Ltd., £90,300; James Miller and Partners, Ltd., £92,400.

Tynemouth, Northumb.—Supply of 24in. water main to be laid from West Moor to Sandy Lane, for B.C.: Cochrane, Ltd., Middlesbrough, £33,562.

HEATING AND VENTILATING

Birmingham. — Following works, for the Regional Hospital Board: (a) Provision of a replacement induced draught fan and grit arresting equipment, and (b) renewal of pipework at Marston Green Maternity Hospital—Davidson and Co., Ltd., Exchange Buildings, New Street, Birmingham, 2, £1,150, and (b) H. Clark and Son, Ltd., 48 Coronation Road, Coventry, £1,035; installation of central heating at 15 and 16 Park Road West—A. L. Hughes (Heating Engineers), Ltd., 75 North Street, Wolverhampton, £2,905 (recommended).

Bromsgrove, Worcs.—Provision of mechanical and engineering services in connection with alterations to operating theatre suite at the General Hospital, for the Birmingham Regional Hospital Board: Etna Lighting and Heating Co., Ltd., 293a Broad Street, Birmingham, 1, £2,589 (recommended).

Chester. — Converting of the central heating from coke to oil fired at Kenwyn, for City Council: Proud and Sons, Ltd., 7 Delamere Street, Chester, £762 (recommended).

Leek, Staffs.—Provision of steam and condense distribution mains to ward kitchens at St. Edward's Hospital, for the Birmingham Regional Hospital Board: Brightside Heating and Engineering Co., Ltd., 17 Summer Row, Birmingham, 3, £6,347 (recommended).

Lichfield, Staffs.—(a) Provision of mechanical services for central stores and patients' social centre, and (b) supply and installation of third boiler, complete with mountings, stokers, new foundations and boiler settings at St. Matthew's Hospital, Burntwood, for the Birmingham Regional Hospital Board—(a) Hope's Heating and Engineering Co., Ltd., Halford Works, Smethwick, £1,990, and (b) Foster Yates and Thom, Ltd., £9,003 (recommended).

Manchester.—Upgrading of existing heating and hot water services associated with scheme for provision of new boiler plant and and engineering services at Ancoats Hospital, for Manchester Regional Hospital Board: Capper Pipe Service and Welding Co., Ltd., Forward Works, Woolston, near Warrington, £10,930 (recommended).

Nuneaton, War. — Mechanical engineering work in connection with conversion of stores building to ward use at Manor Hospital, for the Birmingham Regional Hospital Board: Edgar Toon, Ltd., Bath House, Mountrath Street, Walsall, £5,063 (recommended).

Rochdale, Lancs.—Provision of ventilation plant in operating theatre at Rochdale Infirmary, for Manchester Regional Hospital Board: Septimus Taylor and Son, Ltd., Greenwood Street, Oldham, £3,752 (recommended).

Southampton.—Conversion of Seymour House to form eight flats, for B.C.: John Lewis Building, Ltd., 41 Portland Terrace, Southampton, £2,878 (recommended, subject to Ministry approval).

Stockport, Ches.—Installation of new boiler plant at Cherry Tree Hospital, for Manchester Regional Hospital Board: Daniel Adamson and Co., Ltd., Dukinfield, £5,390 (recommended).

Stoke-on-Trent, Staffs.—Following works, for City Council: Renewal of domestic hot and and cold services and supply and installation of new condensate tank, etc., at Westcliffe—Saunders and Taylor, Ltd., Birmingham, £50,550; installation of hot water heating and hot water supply services in old people's home at Blurton estate — C. Ward Brassington, Stoke-on-Trent, £5,357 (recommended).

Stourbridge, Worcs. — Installation of mechanical coal handling plant at Wordsley Hospital, for the Birmingham Regional Hospital Board: J. Hickman and Son (Brierley Hill), Ltd., Brockmoor, Brierley Hill, Staffs., £1,078 (recommended).

Worcester. — Provision of centralised heating system at Powick Hospital, for the Birmingham Regional Hospital Board: Brightside Heating and Engineering Co., Ltd., 17 Summer Row, Birmingham, £20,545 (recommended).

HOUSING SCHEMES

Battersea. — Forty-six dwellings, comprising 10 three-bedroom houses, four two-bedroom houses and eight two-bedroom, 20 one-bedroom and four bed-sittingroom flats, at stage one of Winstanley Road-Knox Road scheme, for B.C.: Direct Labour, £102,069 (recommended).

Bexhill, Sussex.—Eight two-bedroom houses on the site of the four temporary bungalows earmarked for demolition, for B.C.: Knights (Sussex), Ltd., Bevernbridge, South Chailey, Barcombe, Sussex, £13,430 (negotiated tender, subject to Ministry approval).

Birmingham. — One hunderd and seven four-storey maisonnettes and houses at Long Nuke Road, Northfield, for City Council: C. Bryant and Sons, Ltd., 65 Whitmore Road, Birmingham, £229,000.

Blaydon, Durham.—Fifty-eight houses on the Parkhead estate, for U.D.C.: Direct Labour, £72,290.

Before you have finished your Cigarette

In the time it takes to smoke an ordinary-sized cigarette, say 10 minutes or less, this

CLEVELAND MODEL 140 WHEEL TRENCHER

could have dug between 60 and 70 yards of trench, 21in. wide and 4ft. deep.

Timed on an important gas main laying contract in the Eastern Counties digging at the

incredible rate of nearly 20ft. per minute

the dependable "140" gave high output at low cost under the most severe conditions.

Trench sizes range from 17½in. to 30in. wide, to a maximum of 5ft. 6in. deep; digging speeds can be varied from .5 to 37.3 feet per minute.

Optional extras include: bucket cleaner, tiling shield, grade indicator, etc.

Full details from U.K. Manufacturers and Distributors: **JOHN ALLEN & SONS (OXFORD) LTD. · COWLEY · OXFORD** TEL. 77155/7

3

Chester.—Four maisonnettes, three bed-sitting rooms and one shop at The Mount, for City Council: John Hughes and Co., Ltd., 12a Holt Street, Wrexham, £12,574 (recommended).

Chislehurst, Kent. — Housing development at Woodlands Road — F. R. Freeman, Ltd., 13-14 Chapel Street, London, N.W.1. Estimated cost £45,000.

Dunstable, Beds. — One hundred and sixteen Homeville traditional flats at Downside estate, for B.C.: Homeville Contractors, Ltd., 9 West Way, Botley, Oxford.

Ealing, Middx.—Twelve one-bedroom flats at Windmill Road-Darwin Road, London, W.5, for B.C.: W. J. Irish and Son, 53 Lowlands Road, Harrow, Middx., £18,673 (recommended, in lieu of withdrawn tender).

Guildford, Surrey.—Sixteen flats and 27 pairs of houses at Park Barn, for B.C.: E. Clarke and Sons (Addlestone), Ltd., Addlestone, Weybridge, Surrey, £122,775.

Hackney.—Following, for B.C.: One hundred and two dwellings and 20 garages at Amhurst Park (No. 1) site — Direct Labour (estimated cost £403,000, including site acquisition and development); 18 dwellings and four lock-up garages at Kyverdale Road site—Direct Labour (estimated cost £60,565, including site acquisition and development). Both recommended.

Hetton, Dur.—Eighteen houses at Lyons Lane and Hornsey Terrace, Easington Lane, and eight old people's bungalows at Barnard Park, Hetton. P. W. Richardson, surveyor: Direct Labour, £35,196.

Milford Haven, Pembs.—Ninety-five three-bedroom-type houses, Gelliswick housing schemes, 7 and 8, for U.D.C.: Henry Adams and Sons, Edward Street, Milford Haven, (7), £83,966, and (8) £52,877 (accepted); Gibson and King, Ltd., (7), £85,524 and (8), £54,589; Phelps and Owen, Ltd., (7), £89,297, and (8), £56,037.

Northampton. — Twenty-one bungalows at "The Priory," Billing Road, East Northampton, for B.C. B. Bunch, borough architect: Adkins and Shaw (Builders and Contractors), Ltd., St. James' Road, Northampton, £34,381. Work commencing Feb. 10.

Northwich, Ches. — Twelve bungalows on the Weaverham housing site, contract 12/11, for R.D.C. J. B. Birtwistle, engineer and surveyor: J. Oakes, 481-3 High Street, Winsford, £12,462. Work has commenced.

Nuneaton, War.—Three houses at corner of Abbotsford Road and Marston Lane, for B.C.: Smith and Ellis, 11 Chandos Street, Nuneaton, £4,976 (recommended).

Plymouth.—Following works, for City Council: 48 flats at St. Mary Street/Union Place and 48 at King Street/Manor Street/Alice Street—R. Costain, Ltd., 4 Princess Place, Plymouth, £70,640 (for each set of 48 flats); 27 dwellings at Western Approach—F. J. Stanbury, Ltd., Alexandra Works, Alexandra Road, Plymouth, £40,253; 44 flats at Granby Barracks—Selleck, Nicholls and Co., Ltd., The Old House, St. Austell, £51,410 (recommended).

Ryde, I. of W.—Two blocks of three houses, each type 54, at School Street, for B.C. W. Rowbotham, borough surveyor: C. F. Wade and Co., Upper Green Road, St. Helens, I. of W., £5,281.

Scunthorpe, Lincs.—Block of six houses, five shops, four flats and four maisonnettes at Healey Road, for B.C.: H. N. Slingsby, 81 Priory Lane, Scunthorpe, £38,546 (recommended, subject to Ministry approval).

Southport, Lancs. — Block of flats at Viceroy Court, Lord Street. Raymond J. Hubbard, architect, 126 Wigmore Street, London, W.1; J. H. Gulliford, quantity surveyor, 9 St. Martin's Mews, London, W.C.2: Westminster Construction Co., Ltd., 36 Westminster Palace Gardens, Artillery Row, London, S.W.1. Work commenced.

Stoke-on-Trent, Staffs. — One house with garage at Broadmine Street, Fenton, for City Council: Direct Labour, £2,275 (recommended, subject to Ministry approval).

Stourport, Worcs.—One hundred and two Homeville traditional housing units, with roads and sewers, at Walshes Farm estate, for U.D.C.: Percy Cox (Builders), Quarry Bank, Brierley Hill, Staffs.

Wakefield, Yorks. — Eight houses and four bungalows at Woolley Village, for R.D.C.: Selleck, Nicholls and Co., Ltd., Hill House, East Hill, St. Austell, Cornwall, £17,076.

Wolverhampton, Staffs. — Conversion of 31 Compton Road into two flats for staff of the Women's Hospital, for the Birmingham Regional Hospital Board: W. Gough and Sons, Ltd., 129 Horseley Field, Wolverhampton, £1,270 (recommended).

Woolwich.—Twenty-nine dwellings at McLeod Road, stage four, phase two, of Bostall estate, for B.C.: Direct Labour, £70,360 (recommended).

MATERIALS AND SUPPLIES

Southampton.—Supply of 130 traffic signs, for B.C.: Hills, Ltd., £499 (recommended).

PLANT AND MECHANICAL TRANSPORT

Blackpool. — Supply of two four-wheeled general purpose electric vans, 18/22cwt. capacity, for B.C. Arthur Hamilton, borough surveyor: Victor Electrics, Ltd., Victoria Street, Burscough Bridge, Ormskirk, Lancs., £2,223.

Esher, Surrey.—Supply of a Bedford Lacre sweeper/collector powered by a diesel engine, for U.D.C.: E. J. Baker and Co. (Dorking), Ltd., 57 London Street, Chertsey, Surrey, £2,286.

Southampton. — Supply of a mechanical road sweeper and an air compressor tractor, rear-mounted, for B.C.: Lewin Road Sweepers, Ltd., Victoria Works, Hill Top, West Bromwich, £2,694, and W. R. Sellwood, Ltd., Bournemouth Road, Chandler's Ford, £1,004, respectively (recommended).

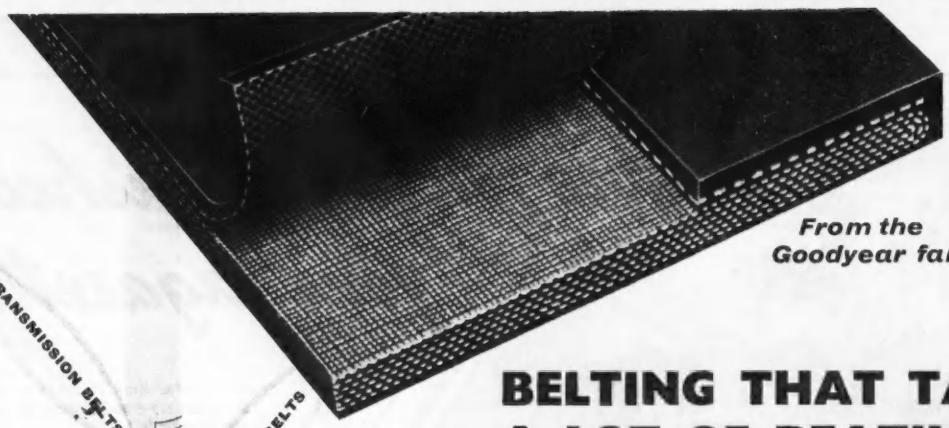
PLAYING FIELDS, PARKS, ETC.

Ealing, Middx.—Development of Northolt Race Course open space, for B.C.: Tenders received—J. S. Bishop and Co., Ltd., £6,434; Norman Hill Plant Hire, £6,887; Greensward (Contracts), Ltd., £7,425; Agri Service, £7,481; Bryan Wattridge (Public Works), Ltd., £7,523; St. Mary's Contractors, Ltd., £7,585; E. Doe and Sons (Contracts), Ltd., £7,626; Landscape and Public Works, Ltd., £7,639; Turfsoil, £7,940; Hugh Pearl (Contracts), Ltd., £7,986; T.H. Contractors, Ltd., £8,665; J. Murphy and Sons, Ltd., £9,279; Gilliam and Co., Ltd., £11,630.

Mansfield, Notts.—Final preparation of cricket and hockey pitches at King Georges Field, for B.C.: Midland Turf Supply Co., Oabdy, Leics., £805 (recommended).

Nottingham.—Landscape layout around the administration block at the sewage disposal works extension, for City Council: Direct Labour, £1,139 (recommended).

Oxford.—Works in connection with phase I of the layout of the Cowley Road Hospital frontage land, for City Council: Gardens Maintenance, Ltd., Henley, Oxon, £1,878 (recommended).



From the Goodyear family tree

TRANSMISSION BELTS
CONVEYOR BELTS
V-BELTS
HOSE
FENDERS

BELTING THAT TAKES A LOT OF BEATING

Whatever material you want to move, whatever the conditions, you'll find the conveyor belt for the job in the Goodyear family tree! For abrasive coke or hot sinter . . . oily materials or sharp stone . . . food and coal . . . a 'job-designed' Goodyear belt is your best choice for longest, low-cost performance. Special features include: good troughing, high impact resistance and flex life, and resistance to mildew. Get in touch with Goodyear now for Britain's most comprehensive conveyor belt service.

* Tough cover compounded to suit job
* Breaker fabric between cover and carcass — where required
* Plies of close-woven cotton duck, or synthetic fibres, mildew inhibited
* Skim coat between plies to increase flexibility, prevent separation
* Substantial edge cover to resist wear

GOODYEAR THE GREATEST NAME IN RUBBER

The Goodyear Tyre & Rubber Company (G.B.) Ltd., Industrial Rubber Products Dept., Wolverhampton

Scunthorpe, Lincs.—Development of land at Manor Farm, for B.C.: A. Kitching, Crowle, £1,186 (recommended).

RAILWAY ENGINEERING

British Railways.—Following contracts placed: London Midland:

Reconstruction of shed roof at Motive Power Depot, Burton-on-Trent: Industrial Engineering, Ltd., Vogue House, Hanover Square, London, W.1.

Provision of timber ladders and platform at Pump House, Shire Road, Birkenhead—Leonard Fairclough, Ltd., 3 Chapel Street, Adlington, Lancs.

Patent glazing of new platform awnings at London Road Station, Manchester—Mellowes and Co., Ltd., Bridge Street, Sheffield, 3.

Reconstruction and strengthening of bridges 78, 91, 118 and 213 over Grand Union Canal on London Euston and Rugby Midland line—Thomas Fletcher and Co., Ltd., Forest Road, Mansfield, Notts.

Supply, fabrication and delivery of steelwork for bridge 5 on Macclesfield and Colwich line—Butterley Co., Ltd., Butterley, near Derby.

Construction for the M.T. of a bridge, near Holmes Chapel, carrying the Crewe-Stockport line over the Birmingham-Preston motorway — Norwest Construction Co., Ltd., Ruthven Road, Litherland, Liverpool, 21.

Construction for the M.T. of a new bridge 5138 at North Ashton carrying the Lancashire Union Line over the Birmingham-Preston motorway—C. A. Horton, Ltd., Brierley Hill, Staffs.

RIVER AND FLOOD PREVENTION WORKS

Stoke-on-Trent, Staffs. — Flood relief scheme for Newcastle Road, Springfields, for City Council: W. E. Owen (Builders and Contractors), Ltd., Cheadle, Staffs., £10,418 (recommended, subject to Ministry approval).

ROADS, BRIDGES AND SITE WORKS

Basingstoke, Hants.—Western Way—extension to Winchester Road, for B.C.: A. J. Dunning and Sons (Weyhill), Ltd., Weyhill, Hants, £17,319 (recommended).

Batley, Yorks.—Making-up of Emerald Street and Trafalgar Street (part), for B.C.: Leake and Carney, Field Lane, Thornes, Wakefield, £1,673 and £896, respectively.

Birmingham.—Repair of roadways at St. Margaret's Hospital, for the Regional Hospital Board: Birmingham Asphalte and Paving Co., Ltd., 25 Whitmore Road, Birmingham, 10, £5,393 (recommended).

Blackpool, Lancs.—Construction of roads and sewers (stage one) at Cleveleys Hydro estate, for T.C.: Approx. 7,300 sq. yd. of roads and 1,550 lin. yd of 6in. to 15in. dia. sewers. Arthur Hamilton, borough surveyor—A. E. Yates, Ltd., Herbert Street, Horwich, Lancs., £16,594. Work commenced.

Cambridge. — Construction of a new prestressed concrete footbridge, to be known as the Garret Hostel Bridge, over the River Cam in the middle of the Backs at Cambridge. Guy Morgan and Partners, consultant architects, 12a Eaton Square, London, S.W.1: J. L. Kier and Co., Ltd., 7 Lygon Place, London, S.W.1. Estimated cost £35,000.

Chester.—Improvement of Mannings Lane from Kingsway to the Chester By-pass, for City Council: J. W. Flather, Ltd., Grosvenor Street, Ellesmere Port, £5,318 (recommended).

Cwmbran, Mon.—Private street works at Brooklands Terrace, Brooklands Terrace rear access road and New Street (part), Pontnewydd, for U.D.C.: J. F. Dymond, 30 High Street (Second Floor), Newport, Mon., £5,313.

Deben, Suffolk.—Construction of approx. 960 super. yd. of carriageway, consisting of hardcore surfaced with macadam, together with footpaths and incidental works, at Rushmere housing site, for R.D.C. M. E. Welbourn, engineer and surveyor: Roadworks, Ltd., Ipswich, £2,645 (accepted); May Gurney and Co., Ltd., £3,022; Edward J. Edwards, £2,864; East Anglian Road and Transport Co., Ltd., £2,964; Drybrook Quarries, Ltd., £2,804.

Esher, Surrey. — Following, for U.D.C.: Remedial works to 700 sq. yd. of artificial stone paving, the reshaping of 1,600 sq. yd. of hardcore carriageways, and surfacing with 2in. gravel asphalt, together with minor surface water drainage and incidental works, contract 291: Carden Miller Construction, Ltd., 101 Toddington Road, Luton, Beds., £1,281.

Footpaths and carriageway realignment at High Street/Approach Road, West Molesey (contract 290): T. Vickers, Ltd., 288 Kingston Road, Leatherhead, Surrey, £6,156.

Goole, Yorks. — Construction of a turning circle for vehicles at end of Bartholomew Avenue, for B.C.: Direct Labour, £794.

Hambledon, Surrey.—Site works for 10 garages, at Wyphurst Road, Cranleigh, for R.D.C.: Janes and Co., Ltd., Buckingham Avenue, Trading Estate, Slough, Bucks., £1,257.

Harrogate, Yorks.—Street works, for B.C.: Greenfields Drive (part) and Rosehurst Grove—Norman Dunn, Ltd., Dunnington Station, Dunnington, Yorks., £1,402 and £603, respectively; Greenfields Road (part)—Airedale Paving Co., Ltd., Shipley, Yorks., £5,290; Pannal Avenue and Larch Grove—Delahope, Ltd., Fawcett Street, York, £2,198 and £446, respectively (recommended, subject to Ministry approval).

Hartlepool.—Extensions to King Oswy Drive, for the B.C. John Wilkin, borough engineer: T. R. Illingworth and Co., Ltd., Peterlee, Co. Durham, £33,750.

Huddersfield, Yorks.—Laying of 4,025 lin. yd. of new and existing kerb, the flagging of 1,350 sq. yd., and the tarpaving of 7,850 sq. yd. of footway, in 22 streets in the borough, together with ancillary works, for B.C. A. L. Percy, borough engineer and surveyor, High Street Buildings, Huddersfield: D. Bates and Co., 11 Bay Hall Common Road, Birkby, Huddersfield.

Kidderminster, Worcs.—Stabilising embankment at Kidderminster General Hospital, for the Birmingham Regional Hospital Board: G. Law, Ltd., Comberton Hill, Kidderminster, £6,428 (recommended).

Leek, Staffs.—Reconstruction of estate roads at St. Edward's Hospital, Cheddleton, for the Birmingham Regional Hospital Board: F. J. Williams and Sons (Bucknall), Ltd., Werrington Road, Bucknall, Stoke-on-Trent (recommended). Estimated cost £1,500.

Leicester.—Construction of roads and sewers to serve 121 dwellings at Nether Hall estate, for City Council: Galliford and Sons, Ltd., Wolvey, Hinckley, £7,640 (recommended).

Lisburn, Antrim.—Widening, realignment and reconstruction of a portion of the Magheralave Road (route C.5), for U.D.C.: Unit Construction Co., Ltd., Church View, Holywood, Co. Down, £25,800 (accepted); Limmer and Trinidad Lake Asphalt Co., Ltd., £26,900; A. J. Clancy, Ltd., £27,550; The Browne Plant Co., £27,896; White and

MORE THAN 150 MACHINES AVAILABLE

and still

You cannot hire old machines

from

GENERAL ROADWORK

THORNTON HEATH 8252 (PBX)

Co. (Contractors), £28,051; Jas. Ross and Son (Contractors), Ltd., £28,176; City Contractors and Plant Hire Co., Ltd., £28,841; John McQuillan (Contractors), Ltd., £29,695; W. M. Larmour, £29,818; Farrans, Ltd., £33,897; R. J. Campbell (Belfast), Ltd., £34,126; Jas. McMullan and Co., Ltd., £34,879; P. J. Walls and Bros., Ltd., £36,275; Stewart and Partners, Ltd., £39,649.

Nottingham.—Provision of a paved area adjoining the community centre buildings at Farnborough Road, Clifton (to serve as tennis court and playground), for City Council: Vic Hallam, Ltd., Valley Works, Langley Mill, £1,511 (recommended).

Ripon, Yorks.—Completion of footpaths, site-works and street lighting in All Hallowgate and Finkle Street, for City Council: Direct Labour (recommended). Estimated cost £2,350.

St. Albans, Herts.—Surface dressing of roads, 1960-61, for City Council: Taroads, Ltd., 304 High Street, Waltham Cross, 13.875d. per gallon for the supply of tar and 3.75d. per sq. yd. for spraying and supplying stone, etc. (recommended).

Scunthorpe, Lincs.—Tarmac surrounds to five children's playgrounds, for B.C. J. E. Churchill, Poplar Farm, Bottesford, Scunthorpe, £791 (recommended).

Southampton.—Following works, for B.C.: Site preparation at Thornhill (section four, Dumbleton's Copse), contract S212—Southern Counties Construction Co., Ltd., 204 London Road, Waterlooville, Portsmouth, £74,505; improvement and car park at Grosvenor Square—Baillie and Edwards, Ltd., 184 Portswood Road, Southampton, £3,939; construction of Eastgate Street car Park—H. Osman and Co., Ltd., Winchester Road, Southampton, £9,614; provision of playground at Western Secondary School—Davis Watson and Elliots, Ltd., £1,709; repairs and improvements to the Art Gallery forecourt—P. Trant, £3,469 (recommended).

Stoke-on-Trent, Staffs. — Making-up Station Grove, Milton, and part of Central Avenue, Bucknall, for City Council: F. J. Williams (Bucknall), Ltd., Werrington Road, Bucknall, Stoke-on-Trent, £3,458 (recommended, subject to Ministry approval).

Wolverhampton, Staffs.—Roadworks, contract 3, New Cross Hospital, for the Birmingham Regional Hospital Board: T. H. Gater Roads, Ltd., 1 Balmoral Road, Penn, Wolverhampton, £1,409 (recommended).

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Belfast.—Reconstruction of sewer at Park Road, for City Council: Grainger Bros. (Ireland), Ltd., 6 Sullivan Place, Holywood, Co. Down, £7,902.

Beverley, Yorks. — Woodmansey sewerage scheme, contract 2, for R.D.C. Works comprise construction of 2,800yd. of 6in. diameter and 2,200yd. of 9in. diameter concrete tube sewers, 1,100yd. of 6in. diameter cast-iron rising mains, together with three pumping stations and ancillary works. John H. Haiste and Partners, consulting engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6: Pavior Construction Co., Ltd., P.O. Box 40, Shipley, Yorks.

Dunmow, Essex.—Construction of sewerage and sewage disposal works at Hatfield Heath and Hatfield Broad Oak, contract 16, for R.D.C. J. D. and D. M. Watson, consulting engineers, 67 Tufton Street, Westminster, London, S.W.1. Tenders received: W. Crossman and Sons, Ltd., £20,940; Concrete Piling, Ltd., £21,323; R. W. Hill and Co., Ltd., £23,194; Highways Construction, Ltd., £28,234; W. and C. French, Ltd., £31,480. Work commencing April.

Ealing, Middx.—Construction of a relief sewer at Ealing Road, Northolt, for B.C.: J. J. Curran, Ltd., 64 Archway Road, London, N.19, £51,771 (recommended, in lieu of withdrawn tender).

Farnham, Surrey.—Construction of surface water drainage at Weydon Lane, for U.D.C.: Davis Contractors, Ltd., 352 Kilburn High Road, London, N.W.6, £6,573.

Maidstone, Kent.—Laying of 2¾ miles of 42in. diameter steel pressure main for sewerage, from Allington pumping station to Aylesford sewage disposal works, for B.C.: Martin Cowley, Ltd., 112 Jermyn Street, London, S.W.1. Estimated cost £173,000. Work commencing early April.

Oxford.—Cleaning of sewers at Botley Road and Warneford Road, for City Council: General Descaling Co., Ltd., 22 Queen Anne's Gate, London, S.W.1 (recommended).

Scunthorpe, Lincs. — Pumping equipment for the caravan site, for B.C.: Tuke and Bell, Ltd., Lichfield, £546 (recommended).

Sowerby Bridge, Yorks.—Construction of a relief sewer at Old Causeway, for U.D.C. Keith Robson, engineer and surveyor: J. W. Mitchell and Sons, Ltd., Arden Works, Fenton Road, Halifax, £12,404.

Stoke-on-Trent, Staffs. — Reconstruction of storm water sewer from West Parade, Fenton, to the Trent and Mersey Canal, for City Council: John Brown and Son (Wolverhampton), Ltd., 75 Darlington Street, Wolverhampton, £2,345 (recommended).

Wath, Yorks. — Providing and laying of 1,522yd. of 6in. diameter sewer, 677yd. of 4in. and 6in. diameter house connections, and the construction of a sewage disposal works in the village of Baldersby, for R.D.C. D. H. Moore, consulting engineer, 12 Valley Bridge Parade, Scarborough: Walter Thompson (Northallerton), Ltd., Northallerton, £14,328 (accepted); Tarslag, Ltd., £17,964; Sangwin, Ltd., £18,124; Ridings Construction Co., Ltd., £18,701; W. G. Birch, Ltd., £16,772; L. Garbutt, Ltd., 19,748; Pavior Construction Co., Ltd., £17,723; C. Tennet, £16,851; A. Simpson, £18,934. Work commencing April, 1960.

Woolwich. — Reconstruction of reinforced culvert on south side of Sidcup Road by King John's Walk, for B.C.: Cawood Wharton and Co., Ltd., 585 Woolwich Road, London, S.E.7, £4,440 (recommended, fixed-price tender).

STREET LIGHTING

Billinge and Winstanley, Lancs.—Supply and erection of approximately 160 class A street lamp columns complete with 140-W sodium discharge lanterns and fittings, scheme 1, for U.D.C. C. Brown, surveyor: Revo Electric Co., Tipton, Staffs., £7,201 (accepted); Abacus, Engineering, Ltd., £6,957; A.E.I. Lamp and Lighting Co., Ltd., £6,523; Atlas Lighting, Ltd., £6,492; Cohen Bros. (Electrical), Ltd., £6,673; Concrete Utilities, Ltd., £6,388; General Electric Co., Ltd., £6,868; Machinery Installations, Ltd., £8,167. Work commencing May.

Hampstead.—Following, for B.C.: Supply of sodium discharge lanterns—General Electric Co., Ltd., Magnet House, London, W.C.2, £3,313; supply of colour-corrected mercury vapour lanterns—Engineering and Lighting Equipment Co., Ltd., St. Albans, £530; supply and erection of lamp columns and installation of equipment—O. C. Summers, Ltd., 111 York Way, London, N.7, £18,502 (all recommended).

Sharp Jones are specified again!

Another extensive drainage scheme now under construction where you will find Sharp Jones

'ROCK' CONCRETE SPUN PIPES

•

Also Manufacturers of

SALT GLAZED STONEWARE PIPES & FITTINGS

Sharp Jones 'Rock' Concrete Pipes are available in a full range of standard sizes suitable for Sewage Schemes, Surface Water Drainage, Culverts and Conduits, etc., and are used extensively on sites throughout the country.

Full Technical Details available on request to :—

SHARP JONES & CO., LTD.

BOURNE VALLEY WORKS, PARKSTONE, POOLE, DORSET.

Telephone - - - Westbourne 61226-7-8.

Kirkburton, Yorks.—Supply, erection and provision of services for 57 lighting points mounted on 35ft. steel columns at Penistone Road, A.629, for U.D.C. Ian E. Mercer, engineer and surveyor: Anderson and Heeley, Holmfirth Road, Kirkburton, £5,380 (accepted); Cohen Bros. (Electrical), Ltd., £6,099;; General Electric Co., Ltd., £5,583. Work commencing April.

Skipton, Yorks.—Street lighting, supply of steel columns, 90 group B, for U.D.C.: Abacus Engineering, Ltd., Russell Chambers, King Street, Nottingham.

GOVERNMENT CONTRACTS

Admiralty.—Particulars of contracts over £1,000 in value placed by Civil Engineer-in-Chief's Department:

Hampshire: steel angle bench units—Handy Angle, Ltd., London, W.C.2; timer benches—H. J. Firman, Gosport; ablution block annexe—Basford and Sons (Contractors), Ltd., Gosport.

Fifeshire: afloat section shed—J. R. and A. Adam, Ltd., Lochgelly.

Air Ministry.—Contracts to the value of £500 or over for the week ended Jan. 22:

Building work: Bentley Priory, Middx.—E. J. G. Morgan, Ltd., Industrial Estate, Uxbridge, Middx.; High Wycombe (Daws Hill), Bucks.—Lavender McMillan, (Contractors), Ltd., 54 Cheam Common Road, Worcester Park, Surrey; Church Fenton, Yorks.—Fred Pearson and Co., Ltd., 32 Cemetery Road, Doncaster, Yorks.; Oban, Argylls.—Charles Gray (Builders), Ltd., 4 Francis Street, Coldside, Dundee, Angus; R.A.F. Station, Misson, Notts.—M. J. Gleeson (Contractors), Ltd., 816-822 Chesterfield Road, Sheffield, 8, Yorks.

Concrete apron (renewal)—Thorney Island, Sussex—Warings (Contractors), Ltd., London Road, Hilsea, Portsmouth, Hants.

Hangar, etc. (dismantling, transporting, re-erection of): Scampton, Lincs.—W. and J. Simons, Ltd., Gordon Road, West Bridgford, Nottingham.

Artificers' work: Cheadle Ashbourne, etc., Staffs.—J. A. Bailey and Sons (Builders), Ltd., 25 Tape Street, Cheadle, Stoke-on-Trent, Staffs.; Sculthorpe (Norfolk), etc.—Kyle Stewart (Contractors), Ltd., Ardshiel House, Empire Way, Wembley, Middx.; Biggin Hill (Kent), etc.—R. Corben and Son, Ltd., West Borough, Maidstone Kent.

Dismantling work, etc. (timber masts): from Anstruther (Scotland) to Middleton St. George, Co. Durham, Shildon and Swanton Morley, Norfolk—William Harbrow, Ltd., 214 Rotherhithe New Road, London, S.E.16.

Maintenance work (railway sidings): Welford, Berks.—William Jones, Ltd., Adam House, 1 Fitzroy Square, London, W.1.

Structural modification to superstructure of hangars: Upper Heyford, Oxon—Newtown Steelwork Co., Ltd., P.O. Box 15, Burnley, Lancs.

Ministry of Works.—Contracts placed for week ended Jan. 16:

Berkshire: Broadmoor Institution, Crowthorne—proposed dining room and scullery—Goodall, Barnard and Clayton, Ltd., 61 Worting Road, Basingstoke, Hants; security measures—John C. Sargent, Ltd., St. Andrews Works, Bracknell.

Cornwall: Coastguard Station, Port Isaac—new bathrooms, external stores and decorations—T. E. Davey and Son, 20 Fernleigh Road, Wadebridge; Ministry of Agriculture, Fisheries and Food, Old Post Office, Redruth—adaptations and alterations—Dudley Coles, Bath Street, Plymouth, Devon.

Essex: Post Office Engineering Depot, Southend—removal of spoil heap—A. E. Symes, Ltd., 236-252 High Street, Stratford, E.15.

Gloucestershire: Inland Revenue Office, Hillfields, Denmark Road, Gloucester—occupational services—W. J. B. Halls, Ltd., Barton Gates, Gloucester; Central Telephone Exchange, Bristol—erection—Stone and Co. (Bristol), Ltd., Bristol, 6.

Herefordshire: Ministry of Supply Depot, Rotherwas — adaptations — Bayley Bros. (Hereford), Ltd., Cotterell Street, Hereford.

London: Tate Gallery, S.W.1—excavation work—J. C. Blythe and Co., Ltd., 9 Baring Road, S.E.12.

Middlesex: Post Office Storage Depot, Ashford—alterations and additions to sheds—Lavender, McMillan (Contractors), Ltd., 54 Cheam Common Road, Worcester Park, Surrey; India Pavilion, Wembley Exhibition—internal decorations—Alfred Bagnall, Ltd., 106-8 High Street, Teddington; National Physical Laboratory, Teddington—helium tunnel building—E. Gostling (Builders), Ltd., Clare Works, Holly Road, Hampton Hill.

Midlothian: Telephone Exchange, Clark Road, Granton, Edinburgh—erection—R. Banks and Son, 133 Inveresk Road, Musselburgh; Telephone Exchange, Tynecastle, Edinburgh—erection of branch Post Office—J Turner and Co., Ltd., Westfield Street, Edinburgh, 11.

Suffolk: Ministry of Agriculture, Fisheries and Food, Capps Stores, Lowestoft—extension to wet store and garage—Palfrey and Webb, Ltd., Whaplood Road, Lowestoft.

Warwickshire: Post Office, Aston Barracks, Birmingham—resurfacing yard areas—W. J. Glossop, Ltd., 46 Broad Road, Acocks Green, Birmingham, 27.

Wiltshire: Tidworth Garrison, phase IV—additional works—Brightside Heating and Engineering Co., Ltd., Anson Road, Milton, Portsmouth, Hants; Post Office, Castle Street, Salisbury—alterations and minor works—Wost and Way, 37 Castle Street, Salisbury.

Post Office.—Contracts for duct laying, etc., works to the value of £500 and over placed during the week ended Jan. 23:

A. R. Cleghorn and Co., Ltd., 34-36 Harvey Lane, Norwich, Norfolk; Comben and Wakeling, Ltd., Kingsbury House, Kingsbury Circle, London, N.W.9; James Cooper (Construction), Ltd., 28 Kensington Church Street, London, W.8; Crawford and Cryan, Ltd., 124 Stafford Road, Wallington, Surrey; The Eden Construction Co., Ltd., English Damside, Carlisle, Cumberland; W. Emerson, Ashby, Spilsby, Lincs.; Edmund Gill, Ltd., 24 Ravenscroft Park, High Barnet, Herts.; Industrial Contractors, Ltd., Boundary Estate, Stafford Road, Fordhouses, Wolverhampton, Staffs.; The Lenton Civil Engineering Co., 38 Cromwell Road, Beeston, Nottingham; McNicholas Construction Co., Ltd., 31a Cricklewood Broadway, London, N.W.2; J. Murphy and Sons, Ltd., 43 Charteris Road, Finsbury Park, London, N.4; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; Douglas Shields, Ltd., 1 Carlin Gate, Blackpool, N.S., Lancs.; D. J. Sullivan (Bristol), Ltd., 16 Burlington Road, Redland, Bristol, 6; George Taylor (Wolverhampton), Ltd., "The Viewlands," Cross Road, Albrighton, Wolverhampton, Staffs.; The Unit Construction Co., Ltd., Church View, Holywood, Belfast, Northern Ireland; The West Lancashire Construction Co., 18 Courtenay Avenue, Waterloo, Liverpool, 22.

War Department.—Contracts placed for the week ended Jan. 15:

Essex (Havengore Island): building—F. Mowle, Ltd., Leigh-on-Sea.

Shropshire (Donnington): electrical—Hartley Installations, Ltd., Shrewsbury; miscellaneous—J. A. Whitticase, Aldridge.

Staffordshire (Sudbury): electrical—C. A. Newton and Co., Ltd., Derby.

Surrey (Camberley): roofing—Davies and Rentowl, Ltd., St. Albans.

Co. Tyrone (Omagh): miscellaneous—McCann Bros., Omagh.

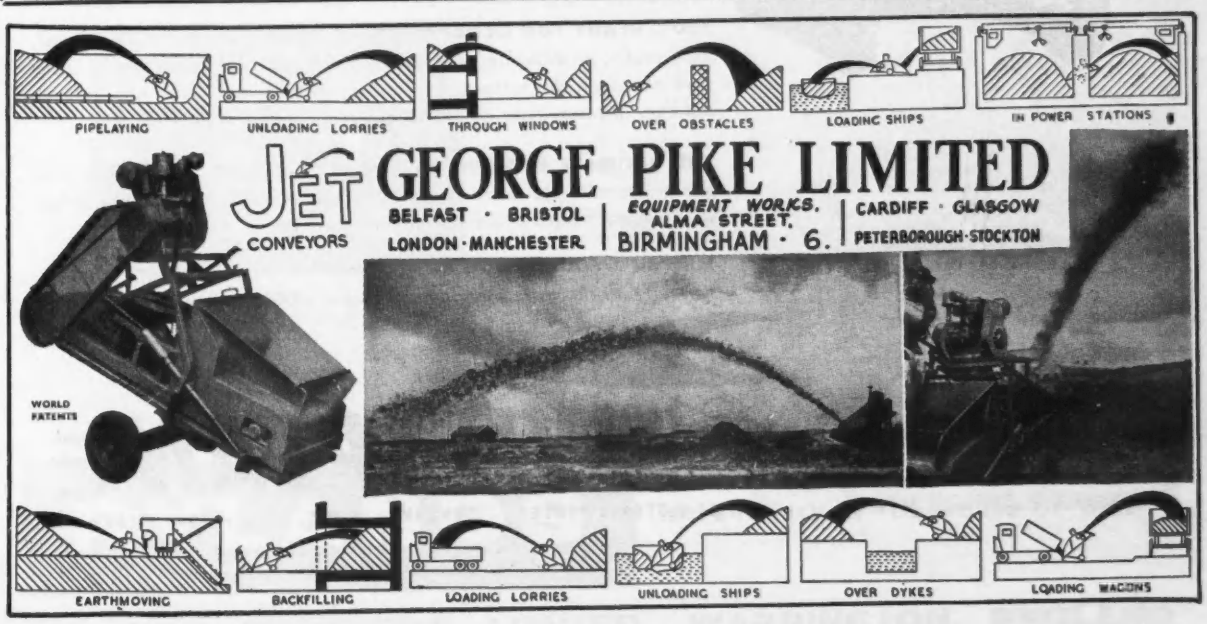
Warwickshire (Sutton Coldfield): demolitions—Demolition and Construction Co., Ltd., London, S.W.1; (Long Marston): repairs to acid pickle tank—Prodorite, Ltd., Wednesbury.

Wiltshire (Salisbury Plain): structural insulation—Thermac Insulations, Ltd., London, S.W.1.

VAL DE TRAVERS

FOR ASPHALTE · TARMACADAM · FELT ROOFING

LONDON · BARROW · BIRMINGHAM · CANTERBURY · EXETER · GLASGOW · LINCOLN · LIVERPOOL · MANCHESTER · NEWCASTLE

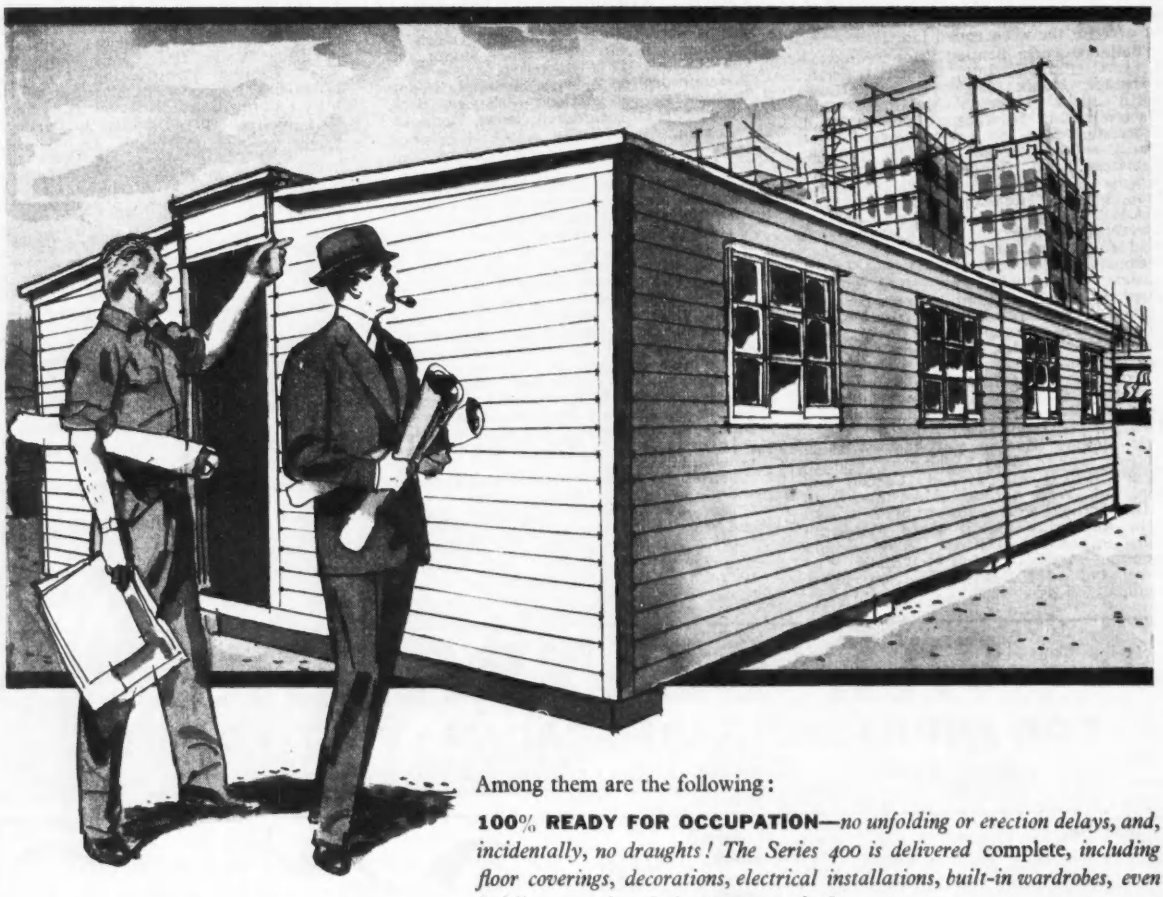


SWIFTPLAN

slashes mobile building costs!

Here at last are single and multiple mobile buildings designed specially for the contractor! The new Swiftplan Series 400 buildings provide comfortable site offices, dormitories, ablutions etc. *at prices far below those of any comparable system*, while yet maintaining to the full Swiftplan's high standards of quality materials and good workmanship.

Already one world-famous building and civil engineering contractor has saved money—over twenty-five per cent on a single order for a dormitory block! The savings effected by them stem from the use of a new, *rigid*-construction principle, one that has many practical advantages over and above the question of economy.



Among them are the following:

100% READY FOR OCCUPATION—*no unfolding or erection delays, and, incidentally, no draughts! The Series 400 is delivered* complete, *including floor coverings, decorations, electrical installations, built-in wardrobes, even bedding, curtains, desks etc. as required.*

THE ULTIMATE IN MOBILITY *Swiftplan Series 400 can be moved from site to site with the entire contents undisturbed. All doors can be locked, no damage is caused to decorations during removal.*

MINIMUM FOUNDATION COSTS *timber sleepers or concrete strips are normally all that is required and, of course,* **100% recovery value!**

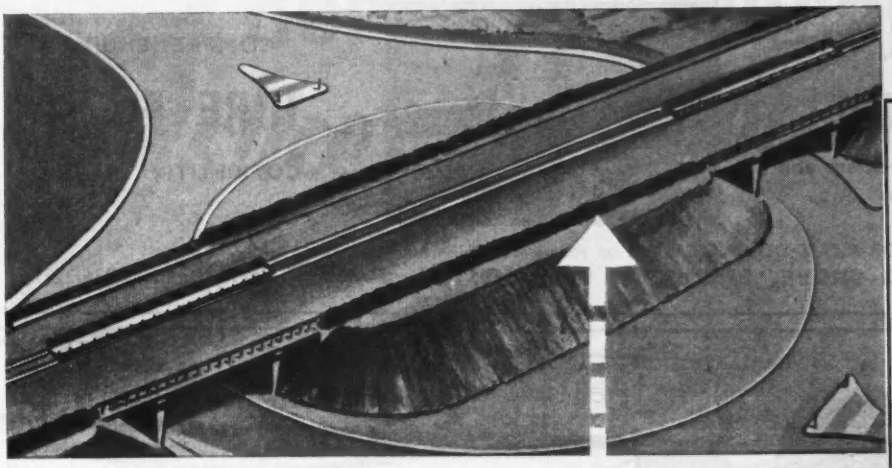
The new Swiftplan Series 400 will save *you* time and money on your next contract, large or small, and will continue to do so every time they are re-sited. Write now for full details.

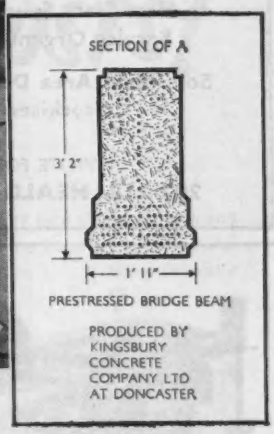
SWIFTPLAN Regd. Trade Mark

39 VICTORIA STREET · LONDON · S.W.1. *Telephone ABBey 4595*

STRETFORD-ECCLES BY-PASS

TWELVE PRESTRESSED CONCRETE BRIDGES IN LESS THAN SIX MILES





KINGSBURY CONCRETE COMPANY LTD. USED

RYLANDS

HIGH TENSILE STRESS RELIEVED

WIRES

IN PRODUCING PRESTRESSED BEAMS FOR THESE BRIDGES

The map shows the route of the STRETFORD-ECCLES BY-PASS and the location of the 12 bridges for which prestressed beams were used. 10 of these bridges are constructed to carry the motorway across roads, road junctions and railways. the other 2 are over bridges.

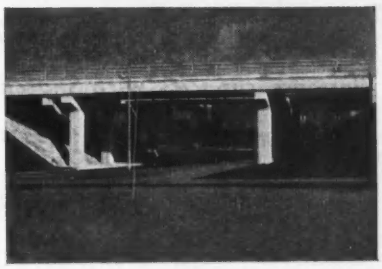
STRETFORD-ECCLES BY-PASS CONSTRUCTED FOR LANCASHIRE COUNTY COUNCIL

COUNTY SURVEYOR & BRIDGEMASTER
James Drake, Esq., B.Sc., M.I.C.E., M.I.Mun.E.

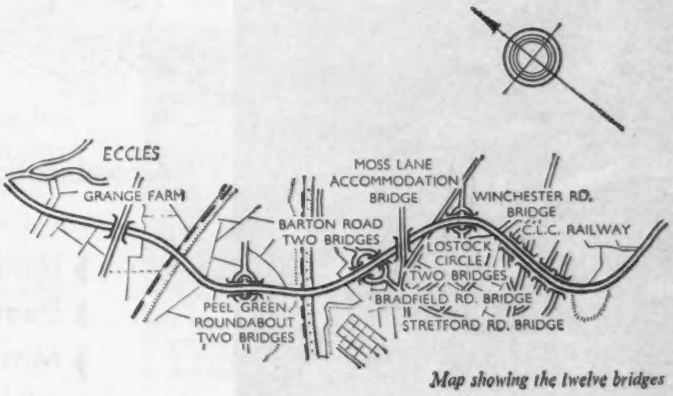
CONTRACTORS: For bridges north of the new Barton Road Bridge
MESSRS. GEE, WALKER & SLATER, LTD.

For bridges south of the new Barton Road Bridge
MESSRS. A. E. FARR LTD.

Sub-Contractor for prestressed concrete beams
MESSRS. KINGSBURY CONCRETE CO. LIMITED



One of the completed bridges at Peel Green



Map showing the twelve bridges

RYLANDS DEPENDABLE IN THE WORLD OF WIRE

RYLANDS BROTHERS LIMITED, WARRINGTON, ENGLAND

C. & A. PLANT SERVICES LIMITED, MANCHESTER

SALES—BRISTOL EARTH-MOVING EQUIPMENT

Machines Available Immediate Delivery.

First-Class Spares and Service Organisation.

Sole Main Area Dealers and Stockists.

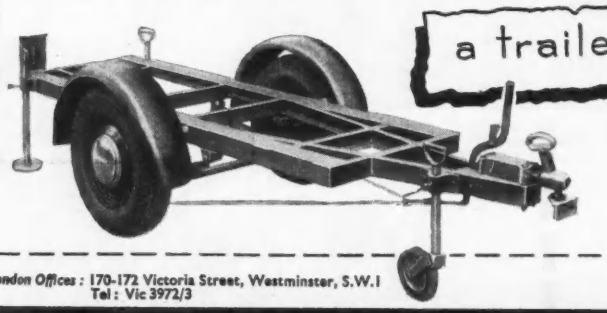
COMPREHENSIVE

HIRE FLEET

COMPETITIVE RATES.

WRITE FOR A FREE DEMONSTRATION on your own site—without obligation—to this address:

202-212 HEALD GROVE, RUSHOLME, MANCHESTER, 14. Tel: RUSholme 2236/2237.



a trailer tailored for your needs

The model illustrated is our standard 30 cwt. chassis for all types of portable plant.

Other models are available in the 10-40 cwt. range, either two or four wheeled types. We also specialise in the production of custom-built chassis.

London Offices: 170-172 Victoria Street, Westminster, S.W.1
Tel: Vic 3972/3

ISAIAH OLDBURY LTD

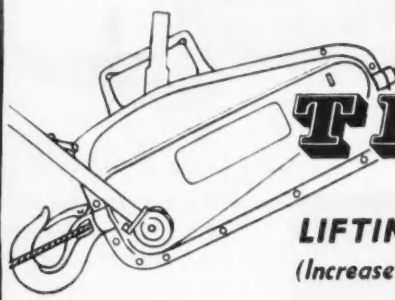
RELIANCE WORKS & BRITANNIA WORKS WEDNESBURY STAFFS

Phone: WED 0781/2 Grams: OLDBURY WEDNESBURY

CUT BUILDING COSTS

with the

TIRFOR



LIFTING RANGE 1-12 TONS

(Increase capacity with SnatchBlocks)

A combination of winch and lifting tackle - with any height of lift

- Loading plant on to vehicles
- Demolition and tree felling
- Moving bogged vehicles
- All hoisting or dragging jobs
- Operated and carried by one man
- Over 100,000 in use

TIRFOR LIMITED

ONE OF THE SIMM ENGINEERING GROUP

27, BROOMGROVE ROAD, SHEFFIELD, 10. *Telephone: 64436.*

***London Office:* 33 ST. GEORGE'S DRIVE, S.W.1.** ***Tel:* TATE 8772.**

Here's the machine to *slice production costs!*

SMITH 12

ALL PURPOSE EXCAVATOR

A Smith 12 face shovel digging and loading limestone for the Harefield Lime Co. Ltd. Rickmansworth

The most remarkable thing about the SMITH 12 is its high-speed working cycle. It digs and dumps more bucket-loads per hour than any machine of comparable cost; in fact its output —on a time-basis—often exceeds that of much larger machines. Excavating pays better profits when you use a SMITH 12!

JUST ADDED! . . . A new dragshovel arm of cranked (or "gooseneck") design is now available as an alternative to the "straight" type. Send for leaflet which explains its advantages.

THOMAS SMITH & SONS (RODLEY) LTD

CRANE AND EXCAVATOR WORKS · RODLEY · LEEDS

Tel: Pudsey 2844 Wires: Smith, Rodley, Telex. (Telex. No. 55105)

BUCKTON
ESTAB. 1930

TRAXCAVATORS FOR HIRE

BACKED BY ROUND THE CLOCK SERVICE

also
D4, D7, D8 Caterpillar Tractor Dozer/Scrapers; D8 Caterpillar Tractors with Type 80 Birtley 14/18 cu. yd. Scraper; 10RB, 19RB and 22RB Excavators.

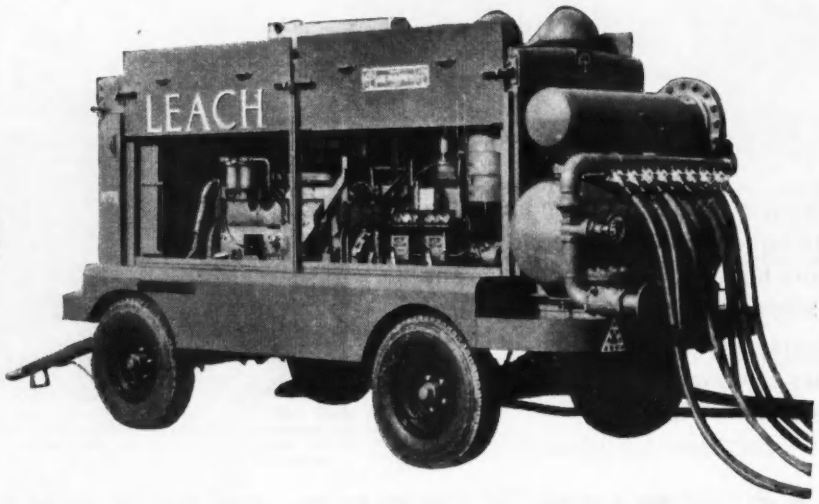
THE BEST ON EARTH — BUCKTON OF ASHTON

BUCKTON LIMITED · 63 STOCKPORT ROAD · ASHTON-UNDER-LYNE · Tel: Ashton-under-Lyne 1848 (3 lines)

HUBERT C. LEACH LTD.

"OFF THE SHELF" SERVICE FOR PNEUMATIC TOOLS AND EQUIPMENT

FOR SALE

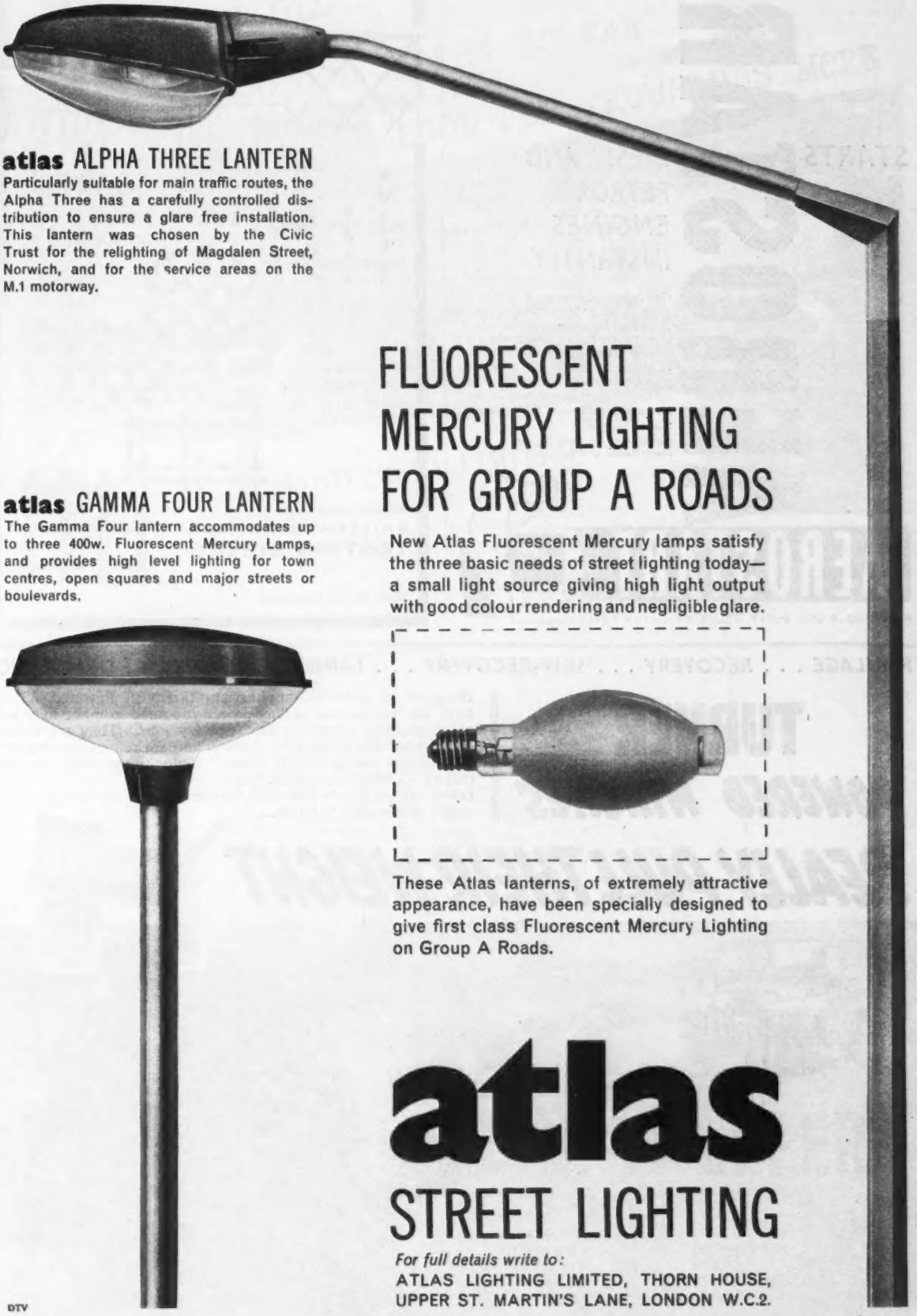


FOR HIRE

AIR PUMPS COMPRESSORS FROM 70 TO 650 C.F.M.

ARMSTRONG-WHITWORTH PNEUMATIC TOOLS AND ACCESSORIES

WRITE FOR DETAILS: HUBERT C. LEACH LTD., HIGH STREET, CHESHUNT, HERTS. Tel.: WALTHAM CROSS 25161 (5 LINES)



atlas ALPHA THREE LANTERN

Particularly suitable for main traffic routes, the Alpha Three has a carefully controlled distribution to ensure a glare free installation. This lantern was chosen by the Civic Trust for the relighting of Magdalen Street, Norwich, and for the service areas on the M.1 motorway.

atlas GAMMA FOUR LANTERN

The Gamma Four lantern accommodates up to three 400w. Fluorescent Mercury Lamps, and provides high level lighting for town centres, open squares and major streets or boulevards.

FLUORESCENT MERCURY LIGHTING FOR GROUP A ROADS

New Atlas Fluorescent Mercury lamps satisfy the three basic needs of street lighting today—a small light source giving high light output with good colour rendering and negligible glare.

These Atlas lanterns, of extremely attractive appearance, have been specially designed to give first class Fluorescent Mercury Lighting on Group A Roads.

atlas

STREET LIGHTING

For full details write to:
ATLAS LIGHTING LIMITED, THORN HOUSE, UPPER ST. MARTIN'S LANE, LONDON W.C.2.

DTV

AEROSTART

STARTS DIESEL AND PETROL ENGINES INSTANTLY

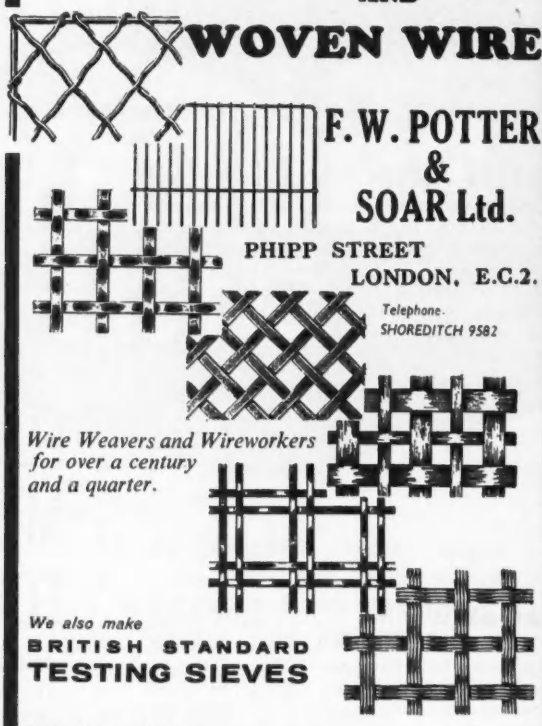
Get regular combustion at once—even on the coldest morning. Spray Aerostart from the pressurised tin directly into the air intake whilst the engine is being cranked. Aerostart prolongs battery life and gives a knock-free start. A 16/6d. tin gives up to 100 starts depending on the size and condition of the engine.

Available from your **Local Garage Motor Factor or Wholesaler.**

AEROSTART

PATENTOOLS LTD., MITRE HOUSE BRIGHTON SUSSEX

WIREWORK AND WOVEN WIRE



F. W. POTTER & SOAR Ltd.

PHIPP STREET
LONDON, E.C.2.

Telephone:
SHOREDITCH 9582

Wire Weavers and Wireworkers for over a century and a quarter.

We also make
BRITISH STANDARD TESTING SIEVES

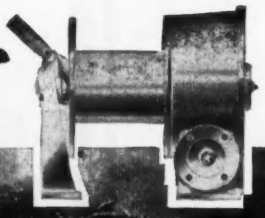
Write for our brochures

HAULAGE . . . RECOVERY . . . SELF-RECOVERY . . . LAND CLEARANCE . . . DEMOLITION

TURNER POWERED WINCHES

Designed for universal application, TURNER Powered Winches have the tremendous pulling power you need to make light work of all haulage, clearance and recovery jobs. They are robustly constructed for heavy duty service, and are remarkably versatile. The Winch range extends from 2,500lb. (illustrated) maximum pull to 55,000lb. maximum pull.
Let us advise you on the most suitable Winch for your particular applications and vehicles.

REALLY PULL THEIR WEIGHT



TURNER MANUFACTURING CO. LTD., (WINCH DIVISION) LEVER STREET, WOLVERHAMPTON

THE MAKERS OF THE LARGEST RANGE OF POWERED WINCHES FOR ALL APPLICATIONS

RICHARD BIFFA LIMITED

CONTRACTORS TO GOVERNMENT DEPARTMENTS AND LOCAL AUTHORITIES. SAND AND BALLAST MERCHANTS. HARDCORE, ASHES AND CLINKER. CONTRACT AND DAILY HIRE. PLANT HIRE. RUBBISH CLEARANCE AND EXCAVATION.

WEMBLEY HILL ROAD,
WEMBLEY, MIDDLESEX

Telephone: WEMbley 6334/5/6 (3 lines)

YOUR REF

OUR REF PAK/GPD

Directors:
L. G. BIFFA
R. G. BIFFA
R. F. BIFFA
Secretary:
P. R. MIGGS

Messrs. Leyland Motors Limited,
Leyland,
Lancs.

6th July, 1959

Dear Sirs,

For the last eighteen months we have been carrying out a large haulage contract clearing approximately 200,000 tons of excavated material from the South East London Area, the bulk of the cartage being dealt with by Leyland 'Hippos'. We would like to say right away that we are completely satisfied at the performance of these trucks. Working in the appalling conditions of last winter (and summer) they steadfastly shifted some 144 to 156 cubic yards per vehicle per day. They have been working at full stretch six days a week and although there may have been an odd spring breakage here and there, we have yet to know engine trouble or experience differential, or transmission failure. We are happy to say that the 'Hippo' has proved itself on this class of work; it has the surge of power necessary, and with its double-drive bogie it rarely gets bogged down. Incidentally, two of our 'Hippos' are twenty years old and although they have covered some five hundred thousand miles each they look good for many thousands more.

Yours faithfully,
p.p. RICHARD BIFFA LIMITED

P. A. King
Manager.

Leyland HIPPO 6-WHEELER
20 TONS GROSS

LEYLAND MOTORS LTD., LEYLAND, LANCS.
Sales Division : Hanover House, Hanover Square, London, W.1 Tel: MAYfair 8561

we've got EVERYTHING!

FOR THE CONTRACTOR

One WEATHERILL 2H Diesel Hydraulically Operated Loading SHOVEL. New late 1954. Fordson engine. Generally overhauled, cleaned, and repainted. £575

One WEATHERILL 4HTW Diesel Hydraulically Operated OVERLOADER. New 1955. Fordson Engine. Generally overhauled, cleaned, and repainted. £650

One WEATHERILL 2H Diesel Hydraulically Operated Loading SHOVEL. New 1954. Fordson Engine. Generally overhauled, cleaned, and repainted. £675

One WEATHERILL 2HH "HI-TIP" Hydraulically Operated Diesel Loading SHOVEL. New 1955. Fordson Diesel Engine. Generally overhauled, cleaned, and repainted. £685

One ALLEN-PARSONS 16/60 Diesel TRENCHER. New 1951. Dorman DWD Engine. Overhauled last year. Fitted 2ft. 6in. Bucket Lines, with Cutter Bars up to 5ft. In excellent condition. £1,150

One RUSTON 19RB ¾ cu. yd. Diesel EXCAVATOR. 19000 Series. Any one Equipment. One owner. In excellent condition. £3,725

One RUSTON 22RB Diesel EXCAVATOR. 18000 Series. Ruston 4YEN Engine. 50ft. Dragline Jib. ¾ cu. yd. Bucket. Very good condition. £3,550

One RUSTON 24RB Diesel EXCAVATOR. 9500 Series. Ruston Engine. 60ft. Boom. ¾ cu. yd. Dragline Bucket. Major overhaul 1955. In sound condition throughout. ...£1,650

One RUSTON 33RB Diesel EXCAVATOR. 7000 Series. Regularly maintained and serviced. General overhaul last year. In good order. £3,100

One RUSTON 43RB Diesel EXCAVATOR. 17000 Series. Face Shovel Equipment. In first-class condition throughout. Bargain. ...£7,500

One INTERNATIONAL BTD-6 Drott Skid Tractor SHOVEL. 1 cu. yd. Bucket. New August, 1957. Overhauled in our works, cleaned, repainted. In excellent condition. £1,750

One JONES KL.44 4-ton Diesel MOBILE CRANE, on caterpillar tracks. 30ft. Lattice Jib. Ruston Engine. New 1949. Generally overhauled, cleaned, repainted. Bargain. £1,225

One COLES THORNYCROFT 5-ton Diesel Electric Lorry-Mounted MOBILE CRANE Mark 7 Series 7. 25ft. Jib. Rope Derricking. Carefully maintained and used by us. In sound condition. Bargain. £2,000

Two ROAD MACHINES 14 cu. ft. Double Bucket Swing WEIGHBATCHERS. Overhauled, cleaned, repainted. Each.....£135

One JONES "Super 40" 3 ton Diesel MOBILE CRANE, on caterpillar tracks. Fitted either 30ft. or 40ft. Jib. New 1947. Overhauled in our Works. In first-class condition. £1,325

Two MUIR-HILL 14B 4½ cu. yd. Diesel DUMPERS. New 1952. Perkins Engines. Overhauled, cleaned, repainted. Tyres in good condition. Each £555

One G. F. ½-ton Diesel DUMPER. Generally overhauled, cleaned, and repainted. £165

Two WINGET 7TH and 7THR 10/7 cu. ft. Diesel CONCRETE MIXERS. Petter Engines. Thoroughly checked over. Good condition throughout. Each £195

One MUIR-HILL 10B 3 cu. yd. Diesel DUMPER. Fordson Engine. New March, 1955. Good tyres. In sound condition throughout. £550

● STOP PRESS

One RUSTON 10-RB ¾ cu. yd. Diesel EXCAVATOR. 20000 Series. Fitted Face Shovel Equipment. Ruston Engine. One owner. In excellent condition. £2,150.

One WEATHERILL 2HHCR Super "HI-TIP" Diesel Driven Hydraulically Operated Loading SHOVEL. Fordson Engine. New 1958. Generally overhauled. In excellent condition. £1,150.

One GOODWIN-BARSBY AJAX "B" Type CRUSHER, together with a large number of spares to the value of £1,000.

Complete with 440/450 volts, 3 phase, 50 cycle Electric Motor and Starter. £1,075.

MOORE'S PLANT LIMITED

Telephone: TOTtenham 0401 (10 lines)

105-129 MARKFIELD ROAD TOTTENHAM LONDON N.15.

Telegrams: 'MORPLANLIM' SOUTHTOT LONDON

COMPRESSORS

FOR HIRE

- *Mobile*
- *Portable*
- *Stationary*
- *Diesel and Electric*
- *18 to 630 cu. ft. f.a.d.*

CONTACT US FOR SERVICE

CONTRACTORS SERVICES LTD

65 EFFRA ROAD, LONDON S.W.2 TELEPHONE BRIXTON 4081

CS26

SCRAP

DISPOSAL

COX AND DANKS LIMITED

BIRMINGHAM
Scapa Works
Langley Green
Oldbury, Birmingham
Tel: Broadwell 1611
Telex 33183

MANCHESTER
Frederick Road
Pendleton
Salford 6
Tel: Pendleton 2481
Telex 66448

SHEFFIELD
Scapa Works
Wadsley Bridge
Sheffield, 6
Tel: Sheffield 344391
Telex 54205

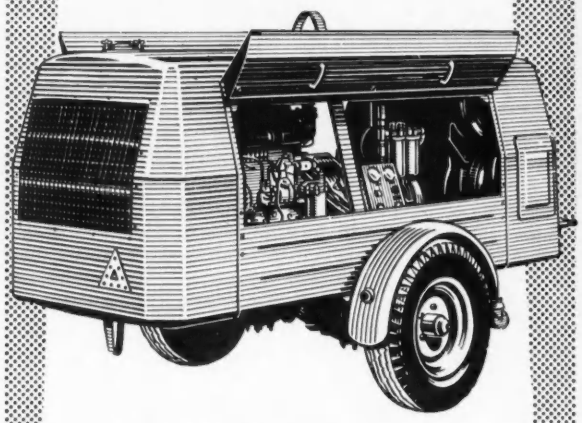
LONDON
Scapa House
Park Royal Road
London N.W.10
Tel: Elgar 5811
Telex 25239

And at Newcastle, Bedford, Cardiff, Bow, Coventry and Belfast.

A METAL INDUSTRIES GROUP COMPANY

SPECIALISED FINANCE

For Contractors considering plant additions or replacements



The EQUITY plan speeds the deal

Write for full details to :

EQUITY CREDIT

COMPANY LIMITED

INDUSTRIAL BANKERS

14 CURZON STREET, LONDON, W.1.
Telephone: HYDe Park 0671

MIDLANDS OFFICE
5 Birch Street, Wolverhampton, Staffs.
Telephone: Wolverhampton 26545.

BAHAMAS:
Equity Banking Corporation Ltd.
Equity Finance Corporation Ltd.
NASSAU

WEST INDIES:
Finance Corporation of Jamaica Ltd.
11 Duke Street, Kingston, Jamaica

EQUITY
FIDES IN FUTURIS

Member of the Lombard Banking Group

A new development in the Lightweight Concrete field

LYTAG

lightweight aggregate

Weather resistance
Lytag has been subjected, without damage, to a series of 24 hour freezing and thawing cycles.

Low 'U' value
Concrete made with Lytag provides a high degree of Thermal Insulation.

Fire resistance
Combustible content of Lytag is less than ½%. Will withstand temperatures up to 1,000°C without damage.

Strength
Lytag is suitable for the manufacture of structural concrete up to a compression strength of 4,500 lbs. sq. inch.

Economy
Being spherical, Lytag gives strength and workability using less cement per cubic yard.

Lytag is a lightweight aggregate produced from pulverised fuel ash by a carefully controlled sintering process. Spherical in shape, it has a slightly roughened surface so providing an excellent key for the adhesion of cement.

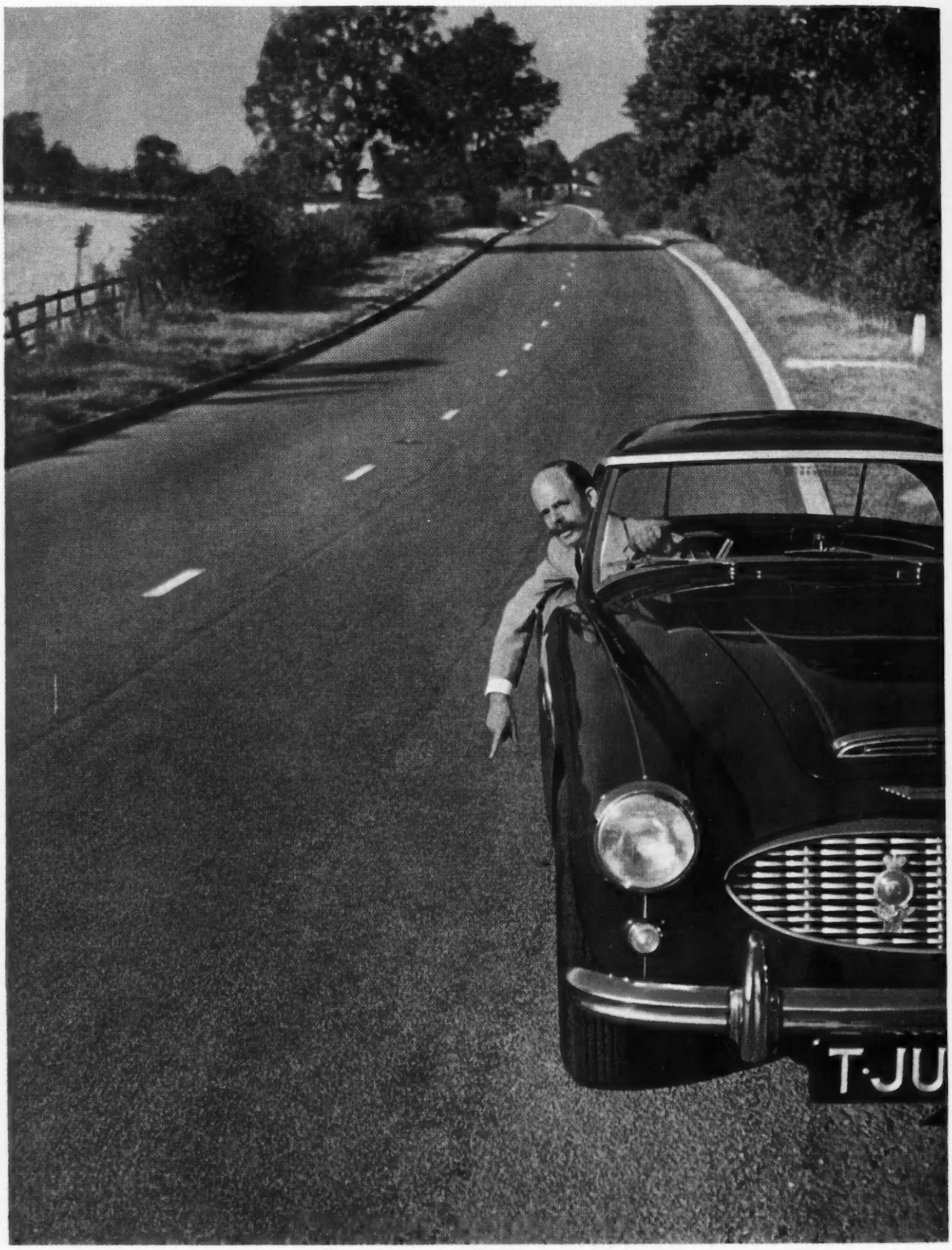
It has been the subject of close scientific scrutiny throughout its development, and the results of this scrutiny are summed up in a number of technical papers which will be forwarded upon request.

LYTAG LIMITED

Manor Way, Boreham Wood, Hertfordshire

Telephone: Elstree 2854

A LAING COMPANY



look at this for a surface

It's Enderby Red Granite the surface that's got everything ... grip to prevent skids – long life and low maintenance costs ... distinctive colour – stands out from verges ... good light reflection – responds to headlights and street lamps ... everything, in fact, to carry today's high-density high-speed traffic safely. Drivers and road engineers all agree, Enderby Red Granite takes some beating.

ENDERBY RED GRANITE

THE MOUNTSORREL GRANITE GROUP
The Mountsorrel Granite Co Ltd
Enderby & Stoney Stanton Granite Co Ltd
Mountsorrel Tarred Macadam Co Ltd
Head Offices: 21 New Walk, Leicester
Tel: 56682 (6 lines)
London Office: 29 Dorset Square, NW1.
Tel: AMB 1141-1142

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE *(Continued from page 544)*

VALES PLANT REGISTER, LTD. OFFER FOR IMMEDIATE SALE:
CRANES:
NEALS NM 2-ton MOBILES, 35ft. Lattice, Ruston Engine, pneumatics, 1951/52, £1,100/£1,250 each.
JONES KL44 MOBILES, 24/30ft. Jibs, Ruston Engines 1953/54, £2,200 each.
NEALS QM 4/6-ton MOBILE, 30/50ft. Jib, 1955, pneumatics, £2,875.
BOOTH 5-ton Steam Shunting LOCO., 4ft. 8½in. gauge, 35ft. Jib, 1951, completely overhauled, £1,150.
BUTTERS 5-ton 2-motor Electric DERRICK, 120ft. Jib, No. 5555, £2,250.
ANDERSON 5-ton Steam DERRICK, 90ft. Jib, new 1947, in good condition, £1,100.
ANDERSON 7-ton 2-motor Electric DERRICK, 120ft. Jib, approx 1952. Offers.
MORGAN 10-ton 2-motor Electric DERRICK, 120ft. Jib, 1954. Bogies available, £4,950.
RUSHWORTH 2-motor 10-ton Electric DERRICK CRANE, 70ft. Jib, new 1957, very good condition, £3,850.
COLES 12½-ton Diesel Electric MOBILE, up to 80ft. Jib, Perkins Engine, on pneumatics, first-class condition, £3,800.
BUTTERS 15-ton 2-motor Electric DERRICK, 120ft. Jib, 1955. Price on application.
COLES R2310 20-ton Diesel/Electric RAIL CRANE, 30ft. Jib, with Cab, S.L.I. Air Pressure Brakes, 4ft. 8½in. gauge, with Magnet, Perkins Engine, new August, 1956, excellent condition, £8,750.
FOR A COMPREHENSIVE LIST OF PLANT FOR SALE AND HIRE—SEND FOR VALES FREE PLANT REGISTER.
Further details: 14 Lower Grosvenor Place, London, S.W.1. Tel.: VICtoria 7531, 3501, 8080, 9886 (15 lines).

WANTED urgently for Overseas Order. 150 Ganby type TIP WAGONS, 60 cu. ft. or 3-ton capacity, 24in. gauge, two Double Drum Winches, 24,000lb. capacity, for rock hauling.
Three Le Tourneau Model W or NP SCRAPERS.
Barber-Greene Mobile ASPHALT PLANT, Dryers, Mixers, Finishers, etc.
Mobile CRUSHING AND SCREENING PLANT of U.S.A. origin.
Please state condition, location, and lowest price to:
ALLEN'S,
Lyndhurst, Lower Hampton Road, Sunbury, Middx.
'Phone: Molesey 5055.

SURPLUS PLANT (all types) and MATERIALS regularly PURCHASED in small or large parcels. Rapid inspections, prompt payment.—E. H. CHURCH AND CO. (EDMONTON), LTD., 68/70 Fenge Road, South Norwood, S.E.25. Tel.: SYD. 3131/3.

FOR SALE, Chaseside 700 LOADMASTER, new May, 1959, owner retired. — B.G. PLANT (SALES AGENCY), LTD., Watlington, Oxon. Watlington 44.

FOR SALE.
Caterpillar D4 and Birtley Dozer, reconditioned, £1,500.
Caterpillar D2, fitted L.P.C. Dozer, £650.
Allis-Chalmers HD7W, fitted Baker Hydraulic Angledozer and Double-drum Winch, reconditioned, £950.
International TD18, fitted Dozer and Winch, £650.
International TD9, fitted Dozer, £450.
International TD9, fitted Cargo Winch, £350.
Le Tourneau 4yd. SCRAPER, £265.
Broomwade COMPRESSOR, 3-tool, Diesel, £165.
Johnson COMPRESSOR, 2-tool, Petrol, £75.
Dinkum DIGGER and two Buckets, as new, £350.
Allis-Chalmers HD7, Tracks new.
A.E.C TRACTOR UNIT, fitted Gardner 5LW, Hands, 15-ton, and Well Trailer, £450.
OIL: High-grade Engine and Gear Oil in 4½-gallon jerry cans, 25s. each.
ROBIN BOSWORTH,
Tel.: Stoke Saint Milbro 237. Nr. Ludlow, Shropshire.

FOR SALE.
Four Carco E TIMBER WINCHES.
Three TOURNACRANES, AD3, 20,000lb.
One Caterpillar 8H GRADER.
Two HD14 Baker ANGLEDOZERS.
One HD14 ROOT GRUBBER EQUIPMENT.
30 HD10 Baker CORNER SHOES and Four CUTTING EDGES and FRONT IDLERS.
30 Buckeye G.L.T. Double-drum SCRAPER WINCHES.
Two Car Wood CU2 WINCHES.
20 Pairs TD14 DOZER CORNER SHOES.
MERTON ENGINEERING CO., LTD.,
Faggs Road, Feltham, Middlesex. Tel.: Feltham 3045.

FOR HIRE / SALE: 1,500 yd. JUBILEE TRACK; 20 TURNOUTS; 200 FLAT BOGIES (nine with brakes); 48 SIDE-TIP WAGONS; 20 DOUBLE BOGIES; Five VAN TRAMS; all 24in. gauge; 50 Pairs WHEELS/AXLES, 36in. gauge; 1,500 STEEL CROWBARS, 42in./48in.; 400 OCT. STEEL JUMPER DRILLS, 4ft. 6in. x 1½in. across flats.—JAMES H. WILLIAMS, 4 Dock Chambers, Cardiff. Telephone 31752.

RAILS, RAILWAY LINE ATTACHMENTS, RAILWAY SLEEPERS of all grades and CROSSING TIMBERS, from 8ft. 6in. to 20ft. long, for SALE Deliveries ex-stock. State use required for.
F. HIRD AND SONS,
Armthorpe, Doncaster. Tel.: Armthorpe 339.

FOR HIRE, Lorry-mounted MOBILE CRANES—3-ton, 5-ton and 10-ton Coles, 2-ton Hydracranes and Jones. Jib lengths up to 60ft.
COVENTRY MOTOR SPARES,
Gulson Road, Coventry. Telephone 63431.

FOR HIRE, Barber-Greene Junior, new 1957, and Barber-Greene Major, new 1959. — FRED WATKINS (ENGINEERING), LTD., Coleford, Glos.

FOR SALE.
Caterpillar D8, 2U17176, 25 C.C.U. and 8S Blade, £2,750.
Caterpillar D8, 2U17164, 8A Hydraulic Blade, £2,750.
Caterpillar D8, 2U15769, 25 C.C.U. and 8A Hydraulic Blade, £3,000.
Caterpillar D8, 2U16852, 25 C.C.U. and 8A Hydraulic Blade, £3,000.
Caterpillar D4, 7J Series, L.P.C. Hydraulic Blade, £750.
VR180, Onions Winch and Cable Blade, £500.
Choice of five Allis-Chalmers HD20s, R.R. Engines, £1,250 each.
Choice of two Allis-Chalmers HD19s, R.R. Engines, £750 each.
Choice of two Euclid S7 Motor SCRAPERS, £5,000 each.
La Plant Choate SCRAPER, £75.
Galion GRADER, Model 118, Leyland Engine, £650.
HD5 Allis-Chalmers SHOVEL, excellent condition, £2,000.
BTD Drott, 13 months old, reconditioned, £2,000.
Levertons for Common-sense Prices Again.
H. LEVERTON AND CO., LTD., Spalding, Lincs.
Tel.: Spalding 3221.

FOR SALE.
ROAD ROLLERS, Aveling-Barford GC6, November, 1947, one owner, reconditioned Diesel Engine just fitted. Price Scarifier, Canopy, Sprayers.
Ditto, GB1, September, 1948, ex County Council, has Ruston 2VTHR Diesel Engine, Canopy, Sprayers.
Ditto, GA 30/35cwt., 1948, with Ford 8 Petrol Engine.
All in stock my works.
A. M. COLE, Eastgate, Sleaford, Lincs. Tel. 463.

IF your business is "dated" and you seek new outlets, you cannot do better than contact us for full details of READY MIXED CONCRETE. We can supply all the plant required, give you facts and figures of running costs, capital outlay, etc. Many people outside the trade have entered this new industry—why not you?—WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines)—after hours: Pudsey 3468.

SMITH Super 10 EXCAVATOR, Serial No. 21608, 1952 manufacture, well maintained and in first-class order, inspection reports by manufacturers available, machine equipped with Skimmer, Backacter, Dragline and Crane Equipment, or would sell separately. Offers as and where lying to HIREPLANT, LTD., North Circular Road, Stonebridge Park, N.W.10.

WANTED, ¾ or ⅞ Light-type Dragline BUCKET, suitable for loading loose coal.—S. T. PICKARD, LTD., Chapel Street, Pelsall, near Walsall, Staffs. Tel.: Pelsall 353.

WANTED, in lots, Muir-Hill 2yd. and 3yd. DUMPERS, Petrol Engines, with good tyres. HOLLINGS & ANDREWS (WELDING ENGINEERS), LTD., East Bush Lane Works, Otley (2940), Yorks.

Works RECONDITIONED DUMPERS-
"NEW" MACHINES—
—Second hand Prices

REBUILT BY THE MANUFACTURERS
GEORGE FOWELL LTD
DUMPER MANUFACTURERS
WALSALL ST., WEST BROMWICH
A "G.F." WARRANTY IS YOUR GUARANTEE OF SATISFACTION
Further Details—
WEST BROM 1063/4

WELDERS
1958
300 amp. LINCOLN PORTABLE DIESEL SETS
FOR HIRE
Very Keen Rates — For Long Term Hires
MOORE'S PLANT LIMITED
105-129 MARKFIELD ROAD, N.15
Phone: TOTtenham 0401/8

HIRE
PLANT HIRE & SALE
Excavators
Bulldozers
Scrapers
Mixers
Pumps, etc.
★
Spares from stock.
TAYLOR KENT
WEYDOWN ROAD,
HASLEMERE, SURREY
Telephone: HASLEMERE 2294/5

FLYGT
PUMPS FOR HIRE
All sizes of Flygt Electric Pumps available for hire (ex-stock)
Range includes 1½in., 3in., 6in., and 8in. deliveries
INDUSTRIAL PUMPS LTD.
20 BENTINCK ROAD, HYSON GREEN, NOTTINGHAM Telephone 75182-3

BRISTOL
H. A. SAUNDERS LTD., can now offer
1 DIGLOADER
1 DUPLEX
1 ANGLEDOZER
All re-built demonstration machines.
Perfect condition.
Phone HILLside 5272

PORTABLE UP TO 6-TOOL & MOBILE MACHINES for HIRE
The WESTERN HIRE CO. LTD.
Canal Yard, Hayes Rd., Southall, Middlesex.
Southall 5601/2.

MOORE'S TRACTOR SHOVEL HIRE
Drott. 1 cu. yd., New Deutz 1½ cu. yd.
Tel: TOTtenham 0401 (10 lines)

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

NOBLE PLANT AND ENGINEERING CO.,
75 Terrace Road, Walton-on-Thames, Surrey.
Telephone: Walton-on-Thames 23693-4-5.
PLANT FOR SALE:
Loraine MC3 Mobile Diesel CRANE, good order, £2,950.
19RB EXCAVATOR, 3VQBN, year 1947, fitted Dragline, £1,250.
10RB EXCAVATOR, 8514, 3VRON, electric start, reconditioned. £950.
10BE EXCAVATOR, fitted Caterpillar D3400 Diesel Engine, any equipment, £1,150.
Priestman Cub, fitted Dragline, No. A3030, Perkins P4, £375.
KL22 MOBILE CRANE, Ruston Diesel, Lattice Jib, year 1948, £650.
Benford ½ cu. yd. DUMPERS (three), year 1956, Petter AVA1, as is condition, £110 each; overhauled, £140 each.
5/3½ Millars CONCRETE MIXER, running order, £35.
10/7 Rex MIXER, Ruston Diesel, year 1950, £115.
10/7 Stothert and Pitt MIXER, Petter Diesel, year 1955, overhauled, £175.
10/7 Blaw Knox MIXER, Ruston Diesel, year 1950, £150.
14/10 Stothert and Pitt, Petter AVA2 Diesel, year 1953, £200.
Muir-Hill 3 cu. yd. DUMPER, P6 Diesel Engine, year 1951, good order, £175.
2½-ton Greens Model DRX ROLLER, Lister Diesel, year 1941, £200.
6½-ton Greens ROLLER, ex Ministry of Supply, as new, £550.
ROAD BREAKERS. Quantity of Atlas 75lb. Model P60, £10 each.
Excavator Equipments of all types available. Particulars on request.
Le Tourneau ROOTER, Model K3, £275.
PORTASILO, Model 201, £325.
Owen M126 ½ cu. yd. GRAB, £150.
Priestman 10/8 Double Rope GRAB, £140.
JIB INSERTS for N.C.K. 19RB and 22RB, new, £45 each.
2in. and 3in. Ransomes-Rapier Centrifugal PUMPS, Petter AVA1, £30 each.
3in. Auto Diesel Centrifugal PUMPS, Petter AVA1, £30 each.
4in. Sykes Ram PUMP, with 40ft. Hose, £125.
5in. Sykes Centrifugal PUMP, with 40ft. Hose, £50.
Quantity of Kango and Victor HAMMERS, £5.
Large quantities of MONO-RAIL EQUIPMENT available. Half-price.
Multico 12in. Rise and Fall Electric SAW, new, £75.
Further details from:
NOBLE PLANT AND ENGINEERING CO.,
75 Terrace Road, Walton-on-Thames, Surrey.
Telephone: Walton-on-Thames 23693-4-5.

FOR HIRE
Modern Shovels, Excavators, Tippers
Keen rates quoted for Site Clearance and Excavation at all-in rates
All Road and Building aggregates supplied
R. BARKER (Peckham) LTD.
10a Ellery Street, Peckham, S.E.15
NEW CROSS 3337 PITS—BRASTED 586

DOE'S COLUMN
GRAND CLEARANCE SALE
10% off all prices quoted for used industrial machines during February.
1954 DINKUM DIGGER, with 24in. Bucket, on new-type Fordson Major Diesel Tractor, on newly remoulded 11 x 36 and 600 x 19 pneumatics. Electric starting, and fitted with Skyhi ¾ cu. yd. front-mounted Hydraulic Loading Shovel and extra Bulldozer Blade. £850
LOADING SHOVELS:
1957 Bray BL30 1 cu. yd. Hydraulic LOADING SHOVEL, with full crowd-action Bucket. Powered by Ford 4D Industrial Diesel Engine with electric starting. Fitted with Operator's enclosed full-vision comfort Cab. Mounted on new remould 1400 x 24 rear pneumatics and very good 750 x 20 fronts. Rebuilt, tested, resprayed. Guaranteed. £1,250
1958 Bray BL430 Four-wheel-drive LOADING SHOVEL, with 1 cu. yd. full crowd-action Bucket. Has Operator's comfort enclosed wide-vision Cab. Ford 4D Industrial Diesel Engine with electric starting. On very good 1400 x 24 and 850 x 20 pneumatics. Spotless condition. £1,750
1957 Bray BL430 Four-wheel-drive LOADING SHOVEL, with 1 cu. yd. full crowd-action Bucket. Mounted on nearly new pneumatics, size 1400 x 24 and 10.50 x 16. Full-vision Operator's comfort Cab. Overhauled, tested, resprayed. £1,450
1956 Bray BL25 1 cu. yd. Crawler LOADING SHOVEL, powered by Ford 4D Industrial Diesel Engine. Cab. Crowd-action Bucket. In good clean working order. £1,550
1955 Bray 1 cu. yd. Crawler LOADING SHOVEL, completely rebuilt throughout and guaranteed. £1,950
1954 Bray HL20 Hydraulic LOADING SHOVEL, with ¾ cu. yd. crowd-action Bucket, overhauled throughout and fitted new 1400 x 24 and good 750 x 20 pneumatics. A rare bargain. £650
1957 Skyhi Heavy-duty LOADING SHOVEL, with 1½ cu. yd. Bucket, on good 1400 x 24 and 750 x 20 pneumatics. Powered by Ford 4D Diesel Engine. Very carefully maintained. £850
Chaseside ½ cu. yd. Cable-operated LOADING SHOVEL, powered by Perkins P6 Diesel Engine. Good cheap machine. £185
Chaseside ½ cu. yd. Cable-operated LOADING SHOVEL, with electric starting and lighting. Good tyres. Has been very carefully maintained by a local council. £185
Chaseside ½ cu. yd. Cable-operated LOADING SHOVEL, in working order. £125
1956 new-type Fordson Major Diesel TRACTOR, with electric starting, on good pneumatics. Fitted with Cab and front-mounted Skyhi ¾ cu. yd. Loading Shovel. £450
1953 new-type Fordson Major Diesel Tractor, with electric starting. Can be seen working. ..£250
ERNEST DOE & SONS LTD.
Ulting, Maldon, Essex
Telephones: Day—Hatfield Peverel 311. Sales, Mr. Hall; works, Mr. Bennett; field service, Mr. Claydon; stores, Mr. Woodham.
Night—Sales, Hatfield Peverel 319; Service and spares, Hatfield Peverel 312.

FOR SALE.
Smith Super 10, Crane-rigged, Serial No. 18828, late 1955, little used, £1,500.
Another, Serial No. 20629, with Skimmer/Backacter and Crane, almost as new, £1,700.
DINKUM DIGGER on Fordson Major Tractor, Diesel, with Sky-hi Shovel, 18in. and 24in. Buckets, overhauled and painted, unusually fine machine, £650.
Allen TRENCHER, 12/18, Serial No. 73580, Ruston 3VRON, in very nice condition, to clear £400.
Aveling-Barford 5-ton ROAD ROLLER, Ruston 2VSOR, with Sprinklers, Type BD5, £400.
Nuffield Universal TRACTOR, with Hydraulic Shovel and Dozer Blade, a fine machine, £325.
Muir-Hill Petrol 2yd. DUMPERS, each £50.
Thwaites Diesel ½yd. DUMPER, £85.
Aveling Petrol ½yd. DUMPERS, each £30.
Fowler Crawler TRACTORS, three-cylinder, Diesel, £260.
Coventry Climax Petrol WATER PUMPS, £75.
Builders' Mighty HOISTS, 5cwt., as new, £25.
Collis 50cwt. Hydraulic Elevated TRUCKS, £25.
Cletrac Diesel ANGLEDOZER, B.D.H., 6-cyl., £350.
Exchanges, H.P. FIELDS, Forest Edge, Ringwood Rd., Ferndown, Dorset. 'Phone: Ferndown 837.

FOR IMMEDIATE HIRE.
Delmag Diesel PILE HAMMERS, D5, D12 and D22.
20-ton PORTASILO.
Spencer-Hopwood BOILERS, all sizes.
McKiernan-Terry PILING HAMMERS, 5, 6, 7 and 9B3.
3½-ton Vibro-Verken Trailer Type VIBRATING ROLLER.
KL44 MOBILE CRANE, pneumatics, Jibs up to 50ft.
Zenith PILE EXTRACTORS, Nos. 20 and 80.
Larssen No. 2 and No. 3 Sections STEEL SHEET PILES.
¾yd. Weatherill LOADING SHOVEL.
Johnson 1 cu. yd. and 1½ cu. yd. Diesel DUMPERS.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Tel.: VICtoria 0252.

SLOGGETTS (ENGINEERING) CO., LTD.
Large quantity of ROADFORMS, most sizes, now available for HIRE. Contact us for HIRE of all types of CONTRACTORS' PLANT.
2 Burtons Road, Hampton Hill, Middlesex.
Telephone: Teddington Lock 1138/9.

SALE or HIRE, 85-h.p. standard gauge Diesel LOCOMOTIVE, weight 15 tons, by Motor Rail.—JOSEPH PUGSLEY AND SONS, LTD., Bristol, 5. Telephone: Bristol 56037.

THWAITES 15cwt. and 1½yd. Diesel-driven DUMPERS, first-class condition and good tyres. W. V. DAVIES, Shipston-on-Stour. 'Phone 125.

DUMPERS
Three late 1958 THWAITES TUSKER 4-wheeled Diesel DUMPERS, capacities 22 cu. ft. wet concrete. Completely reconditioned and guaranteed for three months, resprayed, £325 ex works.

Two THWAITES JUMBO 4-wheeled Diesel DUMPERS, capacities 14 cu. ft. wet concrete. Completely reconditioned, resprayed, and guaranteed for three months, £240 and £275 ex works.

Five THWAITES 3-wheeled Hydraulic TIPPING DUMPERS, capacities 12 cu. ft. All in good condition, overhauled, but not reconditioned, from £75.

NEALE-WRIGHT
& COMPANY LTD.,
150 PARADE, LEAMINGTON SPA.
Telephone: Leamington Spa 924 and 220.
London Gladstone 8874.

FOR SALE or HIRE: JUBILEE TRACK; TIPPING WAGONS; BOGIES, etc.; B.H. and P.B. RAILS for relaying or shoring; Pierced Steel PLANKING and SHUTTERING PANELS; HAND WINCHES; SHEAR LEGS and CHAIN BLOCKS; CRANE BUCKETS; LIFTING JACKS; STORAGE TANKS; GIRDERS; ANGLES; CHANNELS and ROOF TRUSSES; Steel Frame and Wooden Section BUILDINGS; Steel and Cast-iron TUBING up to 24in.—CYMRIC TRADING CO., LTD., Llandaff, Cardiff.

CONVEYOR BARGAINS.
150 18in. x 6in. pitch 8ft. Gravity ROLLER CONVEYORS at £4 each.
45 deg. BENDS for 18in. x 6in. pitch Gravity Roller Conveyors at £2 each.
WILLIAM R. SELWOOD, LTD.,
Chandler's Ford, Hants. 'Phone 2275.

FOR SALE, FACE SHOVEL for 19RB, complete; 19RB SKIMMER BUCKET; Onions 4yd. SCRAPER; Onions CABLEDOZING EQUIPMENT; ARCH AND BLADE for Carlisle Dozer; 2,000-gallon FUEL TANK.—A. AND M. PARTNERS, West Crescent, Gateshead, 10. Felling 692748.

FOR SALE or HIRE, Six 14B Muir-Hill 4½yd. DUMPERS, rock bodies with Perkins P6 Engines. Well tyred, modern and good.—PLANT SALES, LTD., 25 Castlereagh Street, London, W.1. 'Phone: PADdington 2663/4.

FOR SALE, 167 c.f.m. Broomwade Diesel-driven Portable COMPRESSOR, recently overhauled. — WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds 12. Tel. 639081 (10 lines).

FOR SALE, Demonstrator Shawnee Poole 7 cu. yd. REAR DUMP, first-class condition, £1,800 or near offer.—HARTWELL TRACTORS, High Street, Cuddesdon, Oxon. Shawnee Poole Main Distributors.

FOR SALE, 43RB EXCAVATOR, fitted Dragline Equipment, new 1952, Series 15900, rebuilt and as new.—Write Box P.1061, "The Contract Journal."

DROTT SHOVEL, very good condition, recent reconditioned rollers, new tracks, complete 4-in-1 equipment.—Particulars from Box P.1072, "The Contract Journal."

WANTED, D8, 13, 14 or 15A Series.—Write Box P.1122, "The Contract Journal."

PILING for DISPOSAL
Once driven suitable for re-use
BP4 Larssen Box Piles
200 Tons in lengths 36'-42'
4B Larssen Sheet Piles
400 Tons in lengths 18'-38'
Prices by negotiation
Available for Inspection at
BERKELEY POWER STATION, GLOS.
Tel: DURSLEY 2361. EXT. 102.
BALFOUR, BEATTY & CO., LIMITED

FOR PUMP HIRE
CONSULT
PUMPIRE LIMITED

MANCHESTER	LONDON	LEICESTER
Guide Lane, Audenshaw	112 Jermyn Street, S.W.1.	Tudor Works, Bradgate St.
Phone: Denton 4195	*Phone: Trafalgar 2665*	*Phone: Leicester 21512*

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

NORMAN WALKER (MACHINERY), LTD.
Pryme Street, Anlaby, East Yorkshire.
'Phones: Kirkella 57967 and 57968.
OFFERS THE FOLLOWING FIRST-CLASS CONTRACTORS' PLANT:
Two Neals Type NM 2-ton Diesel CRANES, on pneumatic tyres, with or without Priestman Grabs, £1,200 each.
One Ransomes 6-ton Standard Diesel Electric Mobile CRANE, on solid rubber tyres, £650.
A.C.E. 35cwt. Friction WINCH, powered by Lister Radiator-cooled Diesel Engine, only used once, £325.
Three Ransomes 4in. Suction Diesel PUMPING SETS, Perkins P4 Engines, on steel bogies, with canopies, excellent sets, £265 each.
One Aveling-Barford 3-ton Diesel ROAD ROLLER, with water sprays, as new, £850.
One Winget Portable 10 x 6 BRICK AND STONE CRUSHER, powered by Petter Diesel Engine, as new, £325.
Diesel-driven CONCRETE MIXERS, 14/10, 10/7 and 7/5, by Stothert and Pitt and Parkers, reconditioned and in first-class condition throughout. From £265 each.
Parker 4ft. 6in. Portable Diesel-driven ROLLER PAN MILLS, reconditioned, £265 each.
Lister FR2 10-h.p. Radiator-cooled DIESEL ENGINE, with clutch and 2 : 1 reduction gear, done very little work, £135.
All the above plant can be inspected any time at our works.
Photograph of any machine on request.

FOR SALE.
300 tons 75lb. per yd. F.B. RAILS, Revised British Standard Section.
100 tons 35lb. per yd. F.B. RAILS.
50 tons 25lb. per yd. F.B. RAILS.
50 tons 20lb. per yd. F.B. RAILS.
2,000yd. 20lb. per yd. Jubilee TRACK, 24in. gauge.
30 Side Tipping WAGONS, 24in. gauge.
3,000 S1 type Chaired SLEEPERS.
5,000 S2 type Chaired SLEEPERS.
All the above are good serviceable quality.
MARPLE AND GILLOTT, LTD., Sheffield, 9.

FOR SALE, a rather fine 24RB FORWARD SHOVEL, with complete Dragline Conversion, thoroughly overhauled and in first-class condition, available in about two weeks.
PLANT SALES, LTD.,
25 Castlereagh Street, London, W.1. PADdington 2663/5.

MITCHELL'S PLANT SERVICES, LTD., can always offer an excellent range of used Weatherill Hydraulic or Chasside MECHANICAL SHOVELS. Price to suit all users. — Write or 'phone: Palmers Lane, Enfield, Middlesex. HOWard 3493.

FOR SALE or HIRE: 20-ton Supersilo CEMENT SILO; also Blaw Knox Rex Cleanline 14/10 CONCRETE MIXER with Hydraulic Weigher and Dragshovel.—JOSEPH PUGSLEY AND SONS, LTD., Bristol, 5. Tel.: Bristol 56037.

FOR IMMEDIATE HIRE.
Caterpillar D4, D6, D7 and D8 TRACTORS, with Dozers and Scrapers.
10RB, 19RB and 22RB EXCAVATORS, with usual equips.
5-ton, 10-ton, 15-ton and 20-ton CRANES.
¾ cu. yd. EXCAVATORS, rigged as Cranes, Jibs 35ft./70ft., power boom lowering.
Caterpillar TRAXCAVATORS, with 1¼ cu. yd. Shovels, Rippers and Dozer Blade.
Allis-Chalmers HD5G TRACTO-SHOVELS, 1 cu. yd. capacity.
International Drott TRACTO-SHOVELS, with 4-in-1 equipments.
J.C.B. HYDRA-DIGGAS, with 18in.-24in. Buckets, Loading Shovels and Square Hole Attachment.
5/3½, 7/5, 10/7 and 14/10 CONCRETE MIXERS, Petrol or Diesel.
10-ton, 15-ton and 20-ton PORTASILOS.
½, ¾, 1 and 1½ cu. yd. Benford DUMPERS.
50cwt.—8/10-ton Diesel ROAD ROLLERS.
4½/6¼cwt. VIBRATORY ROLLERS.
20/30cwt. FOOTPATH ROLLERS.
5/10cwt. Ace HOISTS, 60ft. Masts.
Chinook HEATERS, Petrol and Electric.
2-Tool PORTABLE COMPRESSORS.
Please write or telephone:
A. J. PHILLIPS, LTD.,
Metropolitan Works, West End Lane, London, N.W.6.
Telephone: Maida Vale 3406/2055/4807.

FOR SALE, 1957 4HTW Weatherill Hydraulic Two-way OVERLOADER, fitted with heavy duty water ballast 1400 x 24 rear wheel and tyre equipment. First-class order. £1,350.
GENERAL ROADWORK, LTD.,
Mitcham Road, Croydon. Tel.: Thornton Heath 8252.

ONE Lima 1201 FORWARD SHOVEL EQUIPMENT, the bucket of which has never been used, is available for SALE.
PLANT SALES, LTD.,
25 Castlereagh Street, London, W.1. PADdington 2663/5.

FOR SALE, One Second-hand Marsden 20-ton per hour SAND AND GRAVEL PLANT. Now surplus to our requirements and available immediately, subject to being unsold. Offers.—Tel.: Southport 77560.

REQUIRED, FACE SHOVEL EQUIPMENT for 1½yd. Manitowac Excavator. — Please state particulars and price to Box P.1053, "The Contract Journal."

STEEL SHEET PILES urgently WANTED. All sections bought; large and small quantities.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. VICtoria 0252.

FOR SALE, International TD18 TRACTOR, with Ruston-Bucyrus Hydraulic Angledozer and P.C.U. 24. — P. BATES, Sunnside Farm, Iveston, Leadgate, Co. Durham. Tel.: Consett 359.

VALES PLANT REGISTER, LTD.
OFFER FOR IMMEDIATE SALE:
MISCELLANEOUS:
BLAW KNOX BATCHMASTER, 1955, overhauled, on pneumatics, £625.
WINGET 14/10 10NT MIXER, new 1955, Lister Diesel, Drag Shovel very good condition, £375.
LOW LOADING TRAILERS, 3-, 5/6- and 8/10-ton, ex Ministry. Also Trailer-mounted TANKS, 200, 500 and 750 gallons.
AIR PUMPS 2/3-tool COMPRESSORS, Lister Diesel Engine, on 2- or 4-wheel trailers or lorry chassis, ex Ministry, unused. From £440/£485 each.
ATLAS, INGERSOLL, AIR PUMPS and BROOMWADE 2- and 3-tool Diesel Portable COMPRESSORS, on 2- and 4-wheel trailers, in good condition, £300/£350 each.
C.P.T 500 cu. ft. Portable COMPRESSORS, Ruston Engines, on pneumatics, late 1954, in very good condition, £950 each.
AUTO MOWER 30cwt. Petrol ROLLER, J.A.P. Engine, new 1953, good condition, £195.
AVELING-BARFORD 2½/3-ton ROLLER, Petter Engine, Sprinklers, good condition, £400.
AVELING-BARFORD 6/8-ton ROLLERS, Scarifiers, Sprinklers and Cabs, Perkins Engines, new 1953 and 1955, £2,000 and £2,375 each.
PEGSON 16in. x 9in. Portable CRUSHING AND SCREENING PLANTS, Ruston Diesel, unused, as new, £750 each.
CATERPILLAR DW21, 18/25 cu. yd. Low Bowl Motor SCRAPERS, with C.C.U. and Cabs, new March, 1958, £11,500 each.
D46U TRACTOR, L.P.C. Dozer and Winch, £1,400.
CATERPILLAR D813A TRACTOR, Birtley 8A Hydraulic Dozer and P.C.U., £5,000.
CATERPILLAR D9 19A TRACTOR, base machine, rebuilt, £10,400.
INTERNATIONAL BTD18 TRACTOR, with Hydraulic Dozer, Winch and Cab, new August, 1958, excellent all round, £6,150.
BIRTLEY and CATERPILLAR Model 70 10/12 cu. yd. SCRAPERS, new 1953/54, recently overhauled, £1,150 each.
EUCLID 15- and 22-ton DUMP TRUCKS, Cummins and Rolls-Royce Engines, £2,400 and £6,000 each, respectively.
PORTASILOS, P20 type, new 1957, £450 each.
365 Tons FRODINGHAM 4 PILING in 30/58ft. lengths. Once driven.
Muir-Hill 14B, 4½yd. DUMPERS, Perkins Engines, good condition, £625 each.
FOR A COMPREHENSIVE LIST OF PLANT FOR SALE AND HIRE—SEND FOR VALES FREE PLANT REGISTER.
Further details: 14 Lower Grosvenor Place, London, S.W.1. Tel.: VICtoria 7531, 3501, 8089, 9886 (15 lines).

WANTED immediately, Halco-Stenuck DRILL AND CARRIAGE.—Please state particulars and price to Box P.1052, "The Contract Journal."

WANTED, Caterpillar TRAXCAVATOR 955. Good price paid.
Write Box P.9937, "The Contract Journal."

BIG CRANE EXCAVATORS
Several for Sale
A.R.C. MOTOR Co. Ltd.
REDHILL WORKS, ARNOLD, NOTTINGHAM
Telephone: 26-3331/5

12 MONTHS WORK FOR 30 8 WHEEL TIPPERS
HAULING A DISTANCE OF 50 MILES.
Available Location Scotland.
Write Box P.1078 "The Contract Journal".

FOR HIRE OF MODERN DIESEL
COMPRESSORS
IN THE MIDLANDS
J. W. COX PLANT HIRE LTD.
QUARRY BANK, BRIERLEY HILL, STAFFS.
Phone: CRADLEY 66695

FOR SALE or HIRE
Compressors 2 to 12 Tools.
Vibrating Rollers, Crane Skips.
Platform Hoists, Scaffold Jib Cranes.
Concrete Mixers, 4/3 to 14/10 cu. ft.
Diesel Driven Pumps.
Diesel Welding Plants.
JOSEPH THOMPSON & Co. (Liverpool) Ltd.
Dutton Street, Liverpool, 3.
Central 0820 & 3023

EQUIPMENT SALES & HIRE CO. LTD.
FOR HIRE
TRAXCAVATORS 955
CAT. D.7.'s Dozer or Scraper
19 R.B.'s—Any Equipment
HOUNSLOW 8831

FOR HIRE
EXCAVATORS • BULLDOZERS
DROTT SHOVELS • PUMPS
MOBILE CRANES • COMPRESSORS
ROLLERS • MIXERS • DUMPERS
Personal attention to all enquiries—
Telephone: HAWLEY PLANT LIMITED,
Hawley Road, Wilmington, Dartford, Kent
Dartford 5539 & 5897

FOR RELIABLE SERVICE .... RING

ROAD ROLLERS LIMITED
formerly
OIL ROAD ROLLERS LTD.
and W. T. PALMER & CO. (LEICESTER) LTD.

BIRMINGHAM	LEEDS	LEICESTER	ST. HELENS
YARDLEY WOOD RD., MOSELEY	BRADFORD ROAD, TINGLEY	MELTON ROAD, THURMASTON	HAYDOCK LANE, HAYDOCK
TEL. BIRMINGHAM 'SOUTH' 3811-3	TEL. MORLEY 4053	TEL. SYSTON 3357-8	TEL. ASHTON-IN-MAKERFIELD 7284

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

LARGE quantity of Plant and Equipment for clearance, including CRANES, LIFTING, CARRYING, CONVEYING and HANDLING EQUIPMENT, AIR COMPRESSORS, FANS, CYCLONES, PAINT MIXERS, MACHINE TOOLS, ACCESSORIES, WELDERS, Contractors' and Builders' PLANT and SPARES, OFFICE, CANTEEN and CLEANING EQUIPMENT, BOILERS, PUMPS, PHOTOGRAPHIC, ENGINES, TESTING, ELECTRICAL and numerous other items. Inspection Monday to Friday, 9 a.m. to 5.30 p.m., or by appointment. Detailed lists supplied on request.—R.D. & M. ENGINEERING CO., Sandy Lane, Dukinfield, Cheshire (near Manchester). Tel.: ASHton-under-Lyne 2871/2.

FOR SALE.
Ex M.O.S. SNOW PLOUGHS, with all fittings, as new, £85. Reduction for quantity.
Four-wheel-drive Morris QUADS, with Winches, £75.
Johnson Super RAMMER, as new, £22 10s.
HYDRAULIC JACKS, 1ft. to 5ft. long, from £4 each.
3,000lb. per sq. in. British Oxygen COMPRESSORS, from £75.
One Fowler-Sanders DIESEL ENGINE and Gearbox, £55.
CAISTOR CONSTRUCTION CO.,
Caistor, Lincs. Tel.: Caistor 314.

TOKEN FOR PLANT.
HIRE your EXCAVATORS, DOZERS and SCRAPERS, Dinkum Major DIGGERS and Drott SHOVELS, TRENCHERS, DUMPERS, ROLLERS, CONCRETE MIXERS, PUMPS, COMPRESSORS, RAMMERS, VIBRATORS, HOISTS, GENERATORS, etc., from TOKEN CONSTRUCTION CO., LTD.,
Plant Depots:
Station Road, Thatcham, Berks. Tel.: Thatcham 3243/3370.
Valmar Road, Camberwell, S.E.5. Tel.: Brixton 5103.

FOR SALE AND HIRE.
Bristol 25 Crawler Diesel ANGLEDOZERS.
Conder 1½ cu. yd. Hydraulic SCRAPERS.
Light and Heavy Duty Hydraulic RIPPERS.
New and used machines demonstrated by the Distributors without obligation.
H. A. SAUNDERS, LTD.,
Radlett, Herts. Telephone: RADlett 5581 (6 lines).

WANTED, WANTED, WANTED.
Heavy EARTHMOVING MACHINES and EQUIPMENT of all types. Modern machines preferred, others considered. Immediate inspection; spot cash settlement — Write, giving full details and location, to A.R.C. MOTOR CO., LTD., Redhill Works, Arnold, Nottingham. Telephone: Nottingham 263331-5.

IF you want to PURCHASE or HIRE any CONTRACTORS' PLANT, please get in touch with METAL UNION (PLANT), LTD., 75 Victoria Street, London, S.W.1. Telephone: VICtoria 4868/9, 7429, 2177/8.

SEARCH 3in. Lift and Force "Mud Marvel" PUMP, handles mud, sludge, sewerage, tannery and other industrial waste. Lister Petrol or Diesel drive.—Whitehall Road, Leeds, 12. Tel.: Leeds 639081 (10 lines).

SLOGGETTS (ENGINEERING) CO., LTD.
Fleet of DIGGER-LOADERS for immediate HIRE.
2 Burtons Road, Hampton Hill, Middx. Tel.: Teddington Lock 1138/9.

AVAILABLE for HIRE: 20/1300 Reich TOWER CRANE, with competent and experienced driver. Special rates for long hire. — RICHARDSON, Herbert House, Slade Green, Erith.

FOR SALE, Modern Weatherill Hydraulic LOADER.—B.G. PLANT (SALES AGENCY), LTD., Watington, Oxon, 44.

FOR SALE.
One Bray BL32 Hi-Lift Loading SHOVEL Hydraulic, 1958, Cab, power steering, £1,150.
One Muir-Hill 2WL Hydraulic Loading SHOVEL, Heavy Duty Bucket, very good, £800.
One J.C.B. HYDRA-DIGGA/COUNTERWEIGHT, Two Buckets, 1957/58, £1,200.
One Track Marshall DOZER, c/w Cab, 1,200 hours only, £1,500.
One Record 205D Portable TOWER CRANE, Petter PC1 Diesel, 1959, as new, £1,200.
One Phoenix Oil-fired TAR BOILER AND SPRAYER, complete, 250-gallon, £100.
One Benford 15cwt. DUMPER, Diesel, £90.
MARSH PLANT AND MACHINERY CO., LTD., South Street, Emsworth, Hants. 'Phone 2032, 2634.

FOR SALE.
Three 1201 LIMAS, Cummins Engine, base machines.
Two 3½yd. F/S and two Dragline Equipments.
One NCK304, F/S Equipment, Gardner Engine.
Two Smith 2/10s, Fowler-Sanders Engine, any equipment.
One 10RB, Diesel Engine, F/S Equipment
Three Euclid Rear Dump TRUCKS, 9.7 cu. yd., Cummins Engine.
All the above can be seen working. Price and particulars:
ARTHUR ROBINSON (CONTRACTORS), LTD.,
423 Linthorpe Road, Middlesbrough.

SOUTHERN BUILDERS & CONTRACTORS (LONDON), LTD.
HIRE:
All Contractors' Plant at very competitive rates.
FOR SALE:
D7 Model 3T, with Cable Dozer.
3-ton Smiths Diesel Mobile Double Drum Grabbing CRANE, solid rubbers.
37RB, with 60ft. Jib and 1¼yd. Bucket.
Write or 'phone:
Cranleigh, The Drive, Rickmansworth 2878 or 5235.

FOR SALE, Priestman Wolf Mark IIIB EXCAVATORS, year of manufacture 1953, fitted with any equipments, choice of three. Also one 1943 Priestman Wolf, Mark II. All with Diesel Engines.
FRANK EDMUNDS, LTD., Watling Street Works, Brownhills, near Walsall. 'Phone: Brownhills 2305/6.

DUMPERS FOR SALE.
Two Thwaites 15cwt., 1955/56, Diesel, overhauled.
Two Benford 15cwt., 1955, Diesel, overhauled, £165 each.
J. UREN,
10 Mortimer Road, Ealing, W.13. (Tel.: PERivale 3255.)

BULLDOZERS, MECHANICAL LOADING SHOVELS and TRAXCAVATORS, etc., TIPPING LORRIES, 5/7-ton, for HIRE.—HENRY FROUD, LTD., Primrose Wharf, Tunnel Avenue, Greenwich, S.E.10. Telephone: GREenwich 0072-3.

MILLARS' 14/10 Closed Drum CONCRETE MIXER, complete with Built-in Weigher, fitted with Electric Motor or Ruston Diesel Engine, overhauled and in excellent order. — W. V. DAVIES, Concrete Mixer Service, Shipston-on-Stour. 'Phone 125.

FOR SALE or HIRE, New Greens 8cwt. VIBRATORY ROLLERS, ex stock delivery. WILLIAM R. SELWOOD, LTD., Chandler's Ford 2275 and Exeter 72375.

WANTED, modern 5-ton Lorry-mounted CRANE. Must be in first-class condition. HOLDSWORTH (YORKSHIRE), LTD., 10 Park Square, Leeds, 1.

WANTED, 19RB, with Face Shovel, for quarry. Must be in first-class order.—Write Box P.1124, "The Contract Journal."

SPECIAL OFFER.
36in. x 24in. Baxter CRUSHER, new 1956, being replaced with 300 t.p.h. machine. Will sell £1,500 loaded. Available almost immediately; seen working. Can supply Feeder.
SCREENS:
Pair Nordberg Screens, 12ft. x 4ft. Two-deck and 16ft. x 5ft. Single-deck, all complete with motors. Suitable to work with above Crusher.
Complete Niagara SCREENING EQUIPMENT, 30/40 t.p.h., for dust, ½in., ¾in., 1½in. and rejects, with short inter-conveyor, cost £1,800 in 1958, accept £1,000 loaded with three totally enclosed driving motors.
Marsden 42in. x 6in. GRANULATOR, new 1958, supplied with or without motor and drive, keen price.
Also Nordberg 4¼ft. Standard HEAD FINE and 4ft. COARSE BOWL; also 4ft. Short Head CONE CRUSHERS.
All available for loading immediately. First-class machines.
SAVILLE-CALVERT (MACHINERY), LTD.,
Harvester House, Stratford-upon-Avon, Warwickshire.
Tel. 4242.

SECOND-HAND PLANT FOR SALE: EXCAVATOR, BULLDOZER, TIPPING GEAR, DERRICK CRANE, ELECTRIC CABLEWAY, ALTERNATOR SET, DUMPERS, WEIGHBATCHERS, WOOD-WORKING MACHINERY, Centrifugal and Diaphragm PUMPS, HOISTS, COMPRESSOR, ENGINES, RAMMERS, Stothert and Pitt MIXERS. Send for detailed list.—PANNELL (PLANT), LTD., Torre Hill, Plymstock, Devon.

FOR SALE, 6in. Gwynne BALLAST PUMP, with Outboard Bearings and Thrust Bearing mounted on bedplate, complete with V rope pulleys and belts and 50-h.p. motor with slide rails. Available for inspection at London Colney. £600.—ST. ALBANS SAND AND GRAVEL CO., LTD., Bowmansgreen 2271.

STEEL SHEET PILES URGENTLY WANTED. All sections bought, large and small quantities.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Tel.: VICtoria 0252.

FOR SALE, 1958 Track-Marshall, complete with Angledozer, in excellent working order, and can be seen working.—A. J. WARD AND SONS, LTD., Egham, Staines 54111/2/3.

WANTED, all types of CLETRAC TRACTORS, any condition.—State Serial No. and price required: C. J. THORNE AND CO., LTD., Uckfield, Sussex. Telephone 178 (3 lines).

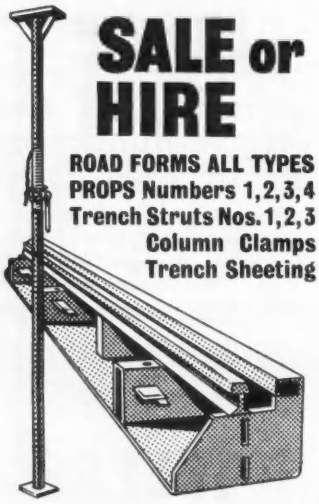
MOBILE CRANES for SALE, HIRE and SPARES—Coles, Ransomes, Morris, etc.—ROBERT DIXON, LTD., Hunsdon Aerodrome, Ware, Herts. Tel.: Stanstead Abbots 301/3.

FOR SALE, a good modern Lima 2400, with both equipments, and in very good order. PLANT SALES, LTD., 25 Castlereagh Street, London, W.1. Telephone: Paddington 2663/5.

FOR SALE, Jones Super 44 Mobile CRANE, 24ft. Jib, on pneumatics with restrictors, nice condition.—WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

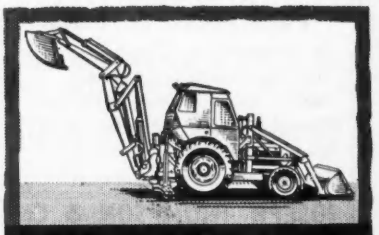
WANTED, Lorry-mounted CRANE, 8/12-ton capacity, must be modern but some repairs no bar. — Write Box P.1101, "The Contract Journal."

AVELING CALFDOZER WANTED. Must be in really good order.—State age, price, etc., to Box P.1125, "The Contract Journal."



SALE or HIRE
ROAD FORMS ALL TYPES
PROPS Numbers 1,2,3,4
Trench Struts Nos. 1,2,3
Column Clamps
Trench Sheeting
RAPID METAL DEVELOPMENTS LTD.
Birmingham — Birchfields 6021 *Swansea 50464*
London — Tideway 2625 *Exeter 63595*
Glasgow — Bridgeton 4214 *Fareham 2017*
Stockton-on-Tees 64150 *Belfast 24591*
Liverpool — Simonswood 2482 *Dublin 54456*

HERGARTH
HYDRAULIC MACHINERY SPECIALISTS
Main JCB Distributors
York C.B., E. and N.R. Yorkshire, and Lincs.
New HOWARD SUPER TRENCHER, ex stock £2,575
PIPELAYER for same £40
New J.C.B. HYDRA-DIGGA/LOADALL 65, with power steering, ex stock £2,368
New SHAWNEE POOLE 7 cu. yd. 9.9-ton DUMPER £2,100
J.C.B. Mark 1 EXCAVATOR and Loading Shovel £1,050
J.C.B. Mark 1 EXCAVATOR and Loading Shovel £1,000
J.C.B. Mark 1 EXCAVATOR and Loading Shovel, as seen working £850
J.C.B. Mark 1 EXCAVATOR (without Buckets) £750
ASTELL WATTS TRENCHER on Ferguson Diesel £650
SHAWNEE DIGGER and Loading Shovel, 1956 .....£1,200
SHAWNEE SCOUT (as new), with four equipments £550
SMITH 2/10 EXCAVATOR, Backacter and Skimmer £350
HOWARD STANDARD TRENCHER (900 hours only) £1,400
HOWARD 3ft. TRENCHER, Fordson T.V.O. £400
Guaranteed New and A.1 Reconditioned and Second-hand EXCAVATORS. Draining and Ditching Hydraulic EXCAVATORS.
PART EXCHANGE AND HIRE PURCHASE.
Main Distributors for SHAWNEE POOLE: York C.B. and E. and N.R. Yorks.
HERGARTH of YORK
Tel.: YORK 55181/2.



Ernest Doe
AND SONS LTD
for secondhand
DINKUM DIGGERS
★
Cheapest prices in the trade
for reliable machines
Always in stock Also spares
ULTING MALDON ESSEX
Telephone: Hatfield Peverel 311 (night 319)

MOORE'S COMPRESSOR HIRE
Broome & Wade 2.3.& 4. tool portable: Air Pumps 2 tool mobile.
Tel: TOTtenham 0401 (10 lines)

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

PLANT FOR SALE.
Onions 3/4yd. SCRAPER, in new condition, £265.
Mobile Hydraulic BATCHING PLANT, Ford 4D Diesel Engine, on 1200 x 24 tyres. This machine is new and has never been worked, only on demonstration. Offers around £475.
Ezion Hydraulic Low-load 2-wheel TRAILER, loads 50cwt. maximum, 10ft. x 6ft. platform. In mint condition, £225.
Allam 6ft. 6in. x 2ft. 6in. VIBRATING TABLE, No. 804, with 1¼-h.p. 3-phase Electric Motor, £75.
A.C.E. 5cwt. HOIST, Lister Twin Diesel Engine (twin flywheels), £75.
Three Stothert and Pitt 10/7 MIXERS, two with Lister Diesels, £135 each, one with Electric 3-phase Motors, £165.
Rex 10/7, Ruston 1VTH Engine, £125.
Three 4ft. 6in. Roller Pan MORTAR MIXERS, mobile, two with Lister Engines, £165 each; one 3-phase Electric, £175.
One McLaren Twin STATIONARY ENGINE, with Berger Hydraulic Equipment, starter, ex No. 4 Ruston. Good condition, £125.
C.P.T. MOBILE COMPRESSOR, on pneumatics, 105 cu. ft., Ruston 3VSH Engine. Needs attention, £145.
C.P.T. MOBILE COMPRESSOR, on pneumatics, 160 cu. ft., Ruston 3VRH Engine. Needs attention, £150.
G. H. DUNNING,
Ballards Yard, High Street, Edgware. Tel.: Edgware 2572. Open week-ends.

FOR SALE.
Smith Super 20, new 1948, with Dragline, Skimmer and Backacter Equipment, in excellent condition. Can be seen working at Wigan, Lancs. £900.
10RB, 12300 Series, with Skimmer, Backacter and Dragline Equipment. Can be seen working at Bradford, Yorkshire. £1,050 o.n.o.
1948 Seddon Diesel LOW-LOADER, 12-ton carrying capacity, k/o rear axle, £300.
CORNELL AND CO., Manchester, 13. Rusholme 1769.

SURPLUS CONVEYOR BELTS. New, unused and second-hand. Most widths up to 36in. in stock for immediate delivery. Second-hand Belts supplied on sale or return basis.
G. E. SIMM (MACHINERY), LTD.,
Sheffield: 27 Broomgrove Road (Tel. 64436). Glasgow Area: Luggie Bank Road, Kirkintilloch (Tel. 2468). London: 33 St. George's Drive (Tel.: Tate 8772). South Wales: 1.F.5 Kingsway Trading Estate, Bridgend (Tel. 1567).

WORKING in the Lancs. and Cheshire area? Woolfenden's are your MOBILE CRANE people. Light or heavy. Lorain, Michigan, Quick-Way, Neals. Jib lengths to 100ft.
WOOLFENDEN'S, Anfield, Liverpool, 4. Stoneycroft 3755.

FOR SALE.—We have a few very good DRAGLINE BUCKETS for Lima or similar machines, 3½yd., 2½yd. and 2yd., complete with Dressings.
PLANT SALES, LTD.,
25 Castlereagh Street, London, W.1. PADdington 2663/5.

FOR SALE, 54RB EXCAVATOR, new late 1957, Series 22300, fitted Dragline equipment, in first-class condition.—Write Box P.1062, "The Contract Journal."

WANTED, Side-tipping WAGONS, 3ft. gauge, 3 to 4 cu. yd.—Details: NORTH DEVON CLAY CO., Torrington, Devon.

WANTED, D4 POWER TAKE-OFF. Particulars, including price, to Box P.1131, "The Contract Journal."

FOR IMMEDIATE HIRE
EXCAVATORS, TRAXCAVATORS, BULLDOZERS, COMPRESSORS, MOBILE CRANES, ROLLERS.
Keen rates —— Low haulage.
SITE CLEARANCE SUB-CONTRACTS.
PLANT HIRE AND SALES, LTD.,
Millbrook Point Road, Southampton.
Telephone 75271.

CONTRACTORS' PLANT FOR HIRE.
HIRE PURCHASE OR SALE:
Selection from our comprehensive fleet of Modern Plant for immediate delivery:
CRANES (standard gauge):
18-ton Brownhoist, shunter, 50ft. Jib.
10-ton Coles, shunter, 40ft. Jib.
10-ton Grafton, Diesel, 34ft. Jib.
8-ton Wilson, Steam, 35ft. Jib.
5-ton Grafton, new Diesel conversion, 35ft. Jib.
5-ton Smith, 50ft. Jib. Two.
CRANES (MOBILE ROAD):
Lorain 10-ton, lorry-mounted, extendible Jib, 30/70ft.
Ruston 10-ton, track-mounted, 40ft. Jib.
Ransomes 8½-ton, Diesel, 21ft. Jib, 1942.
Coles 6-ton, Diesel/Electric, new 1948.
Coles 5-ton, Mark 7, on Thornycroft Diesel chassis
Jones 4-ton, KL44, Diesel, 1948.
Coles 4-ton, Diesel/Electric, new engine.
Jones 3-ton, Super 40. Three available.
DERRICKS:
7-ton Anderson Grice, 100ft. Jib, 400/3/50.
5-ton Wilson, 70ft. Jib, 400/440/3/50.
7-ton Rushworth, Hand, 30ft. Jib.
1½-ton Smith, Hand, 35ft. Jib, new 1952.
EXCAVATORS:
Three 10RBs, 1940/51, Shovels and Draglines.
Osgood ½yd., Diesel, Shovel and Dragline.
LOCOS.:
Stephenson Diesel Locos., 150-h.p. Two.
Barclay 80-h.p.; Ruston 88-h.p., Diesel.
Bagnall Steam, 14in. x 22in., oil-fired.
Peckett Steam, 7in. x 12in.
BULLDOZERS:
D4 and TD18, fully reconditioned, with Angledozers.
PORTABLE BOILERS:
Mobile Oil-fired Economic, on pneumatics (1,500lb. evaporation); also Static Coal-fired Cochran Cross Tube and Crane Boilers.
AIR COMPRESSORS (on pneumatics):
Two 210 c.f.m., 100 p.s.i., Diesel, 1953.
Two 160 c.f.m., 100 p.s.i., Diesel, Worthington.
Four 105 c.f.m., 100 p.s.i., Diesel, Broomwade.
ROLLERS:
12-ton Aveling, Diesel.
9½-ton Marshall, Diesel.
6-ton Huber, Diesel. Two.
5-ton Aveling-Barford, Diesel.
2½-ton Aveling, Diesels. Three.
DUMPERS:
Three Muir-Hill 14B, Diesel, 4½yd.
Two Muir-Hill 10B, 2½yd.
CONCRETE MIXERS:
Winget 5/3½, Petrol-driven.
Winget Roller Pan Mixer, Diesel, 4ft. 6in. pan.
Contractors' Pumps, Roadforms, Flexible Hoses (4in. to 10in.), Steel and Cast-iron Pipes up to 20in., Electric Motors, Diesel Engines, Portable Crushing Plant, Light Railway Equipment and Locomotives, Scaffolding, Fittings, etc.
FRED WATKINS (ENGINEERING), LTD.,
Coleford, Glos. Telephone 2271/2.

D9, D8, TD18 and TD14 BULLDOZERS and Scrapers, Motor Graders, Excavators and new Tippers for HIRE or SUB-CONTRACT WORK. Particular attention given to finish and compaction. New and modern machines in first-class condition. Good operators. Technical staff available to analyse, programme and price complex projects.
DICK HAMPTON,
Broadview Farm, Blacknest, Alton, Hants.
Telephone: Bentley 2241.

FOR SALE, FACE SHOVEL EQUIPMENT for 54RB, new 1958 and never used.—Write Box P.1060, "The Contract Journal."

TEN Contractors' HAND ROLLERS, water-ballasted to approx. 6cwt., £18 each.—Write Box P.1132, "The Contract Journal."

BUNKER CLAMSHELL GATES
LEVER OR AIR OPERATED
ALL STEEL CONSTRUCTION

MAXIM CONVEYORS (ENGLAND) LTD.
BELVEDERE · KENT
Ring ERITH 4223

FOR SALE.
One Allis-Chalmers HD21, with Torque Converter and Onions Winch, very little used, £4,250.
One Allis-Chalmers HD21, with Torque Converter and Onions Winch, new engine and torque converter recently fitted, general condition very good, £4,500.
One Allis-Chalmers HD14, rebuilt and ready for work, £1,000.
One International B275 TRACTOR, with McCormick Front-end Loader, new, £700.
One Gar Wood SCRAPER, 19/24yd., Model 625, used on demonstration only, condition as new, £2,650.
One Gar Wood WINCH, reconditioned, Model CU2, for Allis-Chalmers HD14, £100.
Seven Gar Wood WINCHES, incomplete, £350 lot.
One Ledgerwood 5-ton HAULING WINCH, clutch-driven, less engine, £100.
Two Appleton Single Drum WINCHES, new, £75 each.
Two 2-ton Lister FACTORY TRUCKS, need repairs, £25 each.
Five HD7 TRACKS, complete with Grousers, rebuilt to new standard, £550 lot.
500 Steel SCRATCH WHEELS, 6in. dia. x 1⅛in. thick x ⅝in. bore, all new and boxed individually, 7s. 6d. each.
Six New SPROCKETS for TD9 Tractors, £100 lot.
Five Jeffery CHAINS, 3½in pitch x 38 link, £60 each.
Six Jeffery CHAINS, 4in. pitch x 38 link, £60 each.
Parcels of Lima 34, Barber-Greene, Marion, Ingersoll-Rand, Twin Disc and Allis Grader SPARES. Open to view. Offers invited.
All the above are situate at our Neasden Depot.
CHALLIS, TURTON AND CO., LTD.,
Southview Avenue, Neasden, N.W.10.
Round-the-clock Service. Tel.: (Day) GLAdstone 6535/6/7. (Night) WEMbley 8245; WORdsworth 8534.

LIGHT RAILWAY MATERIAL for SALE.
6,000yd. 25lb. B.S.S. TRACK, 24in. gauge.
500yd. of New 16lb. BRIDGE RAIL.
500yd. of New 30lb. B.S.M. RAIL.
1,000yd. of 20lb. B.S.S. TRACK.
New Lister Diesel LOCOS. From £434.
Twenty ½yd. to 1yd. TIPPING WAGONS.
Four 2 cu. yd. 24in. gauge Rugga TIPPING WAGONS.
Simplex and Planet Diesel LOCOMOTIVES, 24in. gauge.
Maco Pressed Steel Lay-on SWITCHES.
Maco Pressed Steel Lay-on TURNTABLES.
POINTS and CROSSINGS and TURNTABLES.
WHEELS and AXLES—all gauges.
Maco AXLEBOXES.
PLATELAYERS' BOGIES, 4ft. 8½in. gauge.
M. E. ENGINEERING, LTD.,
457 Finchley Road, London, N.W.3. Telegrams: Mengilim, London. 'Phone: HAMpstead 7481-2-3.

FOR HIRE.
Vickers Vigor ANGLEDOZERS and 13yd. Scrapers.
Fiat 60 ANGLEDOZERS and 5/7yd. Open-bowl Scrapers.
Drott BTD6 SHOVELS.
FOR SALE:
Vickers VR180 "C" Model TRACTOR with Dozer and Winch. Good condition.
Fiat 55LI (1956) TRACTOR with Dozer and Winch. Good condition.
RAPID LOADERS LTD.,
152 Oxford Street, Bilston, near Wolverhampton.
('Phone: Bilston 41751/5.)

FOR SALE, Neals NM MOBILE CRANE, 2-ton capacity, 35ft. Jib, pneumatic tyres, ready for work, excellent condition.—Write Box P.9925, "The Contract Journal."

FOR SALE, Large Quantities of 4in., 6in. and 12in. ROAD FORMS, condition as new. Inquiries to EARTHSTRIP, Wakefield Road, Hampole, near Doncaster. Tel.: Adwick-le-Street 3166.

SLOGGETTS (ENGINEERING) Co. Ltd.
COMPRESSORS OF ALL TYPES FOR HIRE
2 Burtons Road, Hampton Hill, Middx.
Telephone: Teddington Lock 1138/9

Hire it from ABELSON
Phone: SHEldon 2424

FOR LIMAS
PLANT SALES LTD.,
28 CASTLEREAGH STREET, LONDON, W.1
Telephone: PADdington 2663-4

Pointing the way...
TO CONSTANT ACCURACY IN PROPORTIONING AND LOWEST CONCRETE PRODUCTION COSTS

REX

A complete range . . . 3½T, 5E, 7E, 7S, 10S, 12S and 14S, with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7S, 10S, 12S and 14S models. *Illustrated literature and prices on request.*

BLAW KNOX LIMITED
Box No. 146 90/94 Brompton Road, London S.W.3. Telephone: KENsington 5151
BK 579

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

WILSON PLANT HIRE offer the following:
Priestman Tiger Mk. V EXCAVATOR, No. A7449, purchased new in March, 1955, fitted with Dorman 4LA Diesel engine, with 24in. tracks, any equipments. First-class condition throughout.
Murex WELDING SET, Type GB002, Serial No. 22675, 9-kW 30-V 300-Amp., with Perkins P4 Engine, mounted to pneumatics with towbar.
Murex WELDING SET, Type GC002, Serial No. 34112, 9-kW 30-V 300/400-Amp., with Perkins P4 engine mounted to pneumatics with towbar.
SKIMMER BUCKETS for Priestman Wolf Mk. IIIB and IV Excavators.
Dorman 4BKII DIESEL ENGINE, fully reconditioned, complete with fuel pump, injectors, water pump, fan, flywheel and housing, but less starter and dynamo. Suitable Priestman Wolf Excavator.
Two 3in. Auto Diesel CENTRIFUGAL PUMPS.
One 4in. Auto Diesel CENTRIFUGAL PUMP.
One 4in. Auto Diesel LIFT AND FORCE PUMP.
Several Parker 5/3½ CONCRETE MIXERS.
SKIMMER BUCKET for Tiger Mk. V Excavator.
WILSON PLANT HIRE, LTD.,
Weedon Road, Northampton. Telephone 4653/4.

FOR HIRE.—Available immediately, 1201 LIMA, fitted with genuine American 100ft. Crane Boom, Back Haul Gear, Bridle, etc., and in first-class condition.—PLANT SALES, LTD., 25 Castlereagh Street, London, W.1. Telephone: Paddington 2663/4.

CRANE HIRE in the South-west: Latest type Mobile and Crawler Machines. Max. lift 12 tons. Jib lengths to 70ft. or 60ft., with 10ft. Fly Jib. Hire or Contract.—GRANGE PLANT, LTD., Honiton, Devon. Telephone. Broadhembury 330-355.

SLOGGETTS (ENGINEERING) CO., LTD. for HIRE, DINKUM DIGGERS, modern machines.
2 Burtons Road, Hampton Hill, Middlesex.
Telephone: Teddington Lock 1138/9.

FOR SALE, SPORTSFIELD ROLLER, wide gauge, by Greens, Lister Diesel Engine, ex M.O.S., almost unused, £450. — METALLIC SALVAGE CO., Kelsall (224), Chester.

FOR SALE, £2,750: Drott 4-in-1 SKID SHOVEL, 50-h.p., 1,800 hours since new. WILLIAM R. SELWOOD, LTD., Chandler's Ford, Hants. 'Phone 2275.

CONTRACTORS' PLANT for HIRE.
BTD6 TRACTORS, with Drott Skid Shovels.
BTD6, TD9, TD14, TD18 and TD24 TRACTORS, with Bullgraders and/or Scrapers.
TD18 TRACTORS, with Pipelaying Equipment.
10RB, 19RB and 22RB EXCAVATORS, with all equips.
First-class machines and operators, backed by finest field service in Great Britain.
Generous transport terms to all parts of England.
Apply to LUMLEY (PLANTS), LTD.,
Stratford-on-Avon 4242 and Ashford (Middlesex) 4191.

WANTED.
CRAWLER TRACTORS and Bulldozers, any condition; also Parcels of Spares for same. Prompt cash and collect.
SPARE PARTS available for TD6, 9, 14, 18, Caterpillar D2, D4, Fowler VF, FD3, Allis M and County.
ROBIN BOSWORTH,
Tel.: Stoke Saint Milbro 237. Nr. Ludlow, Shropshire.

BUCKET SPECIALISTS.—Special or Standard SHOVEL, TRENCHER, GRAB and DRAGLINE BUCKETS to suit all machines. Quick delivery. — Write or 'phone the makers: NORTONS PLANT HIRE, LTD., Billericay, Essex. Tel.: Ramsden Heath 365.

LIMA 1201 Heavy Duty CRANE, fully rigged with genuine American 100ft. Boom and Jury to British maximum rated capacity, fully insured. Available for HIRE with skilled operator.
PLANT SALES, LTD.,
25 Castlereagh Street, London, W.1. PADdington 2663/5.

DELMAG Diesel PILE HAMMERS . . . HIRE your machines from Britain's largest fleet. Models D5, D12 and D22 available, with rope suspended leaders and leg guides. Suitable for any section of pile.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Tel.: VICtoria 0252.

FOR SALE, Two Multibloc BLOCKMAKING MACHINES, with moulds for making 18in. x 9in. x 4in., 3in., 2½in. and 2in. blocks. Price £750 the two. Can be seen at WINTONS, LTD., Wharf Lane, Send, near Woking. Tel.: Ripley 2454.

WANTED, 4½cwt. Stothert and Pitt VIBRATING ROLLER, any condition.
Telephone: North 7074.

PLANT FOR SALE.
1958 Caterpillar 955 TRAXCAVATOR, with Ripper.
10RB EXCAVATOR, 15500 Series, with Backacter.
Priestman Mk. V, IV and III EXCAVATORS.
International TD9, TD14 and TD18 TRACTORS, with Equipments.
Caterpillar D4, Model 2T, with Hydraulic Angledozer.
Caterpillar D6, Model 4R, with Hydraulic Angledozer.
Caterpillar D7, Model 4T, with Dozer and P.C.U.
3-ton Coles CRANE, on Leyland 6-wheeled lorry.
For further details, apply:
ROBERTSON, Barkway (Tel. 277), Herts.

FOR IMMEDIATE SALE AND REMOVAL.
Morgan 12-ton Electric Derrick CRANE, 84ft. Jib.
Morgan 7-ton Electric Derrick CRANE, 100ft. Jib.
Smith-Rodley 5/20 Diesel Crawler CRANE, 50ft. Jib.
Sentinel 75-kVA 440-V 3-phase Diesel ALTERNATOR SET mounted on 4-wheeled Trailer.
For prices and further particulars, apply:
PYMAN, BELL AND CO., LTD.,
65 Quayside, Newcastle upon Tyne, 1.

TWO 2-tool Broomwade Portable COMPRESSORS, to Admiralty specifications, fitted with new Ford 4D Engines, March, 1958, maintained in first-class order as part of hire fleet, offered at £450 each as and where lying London. Also several SV128 Mobile and Lorry-mounted Machines available, prices on application. — HIREPLANT, LTD., North Circular Road, Stonebridge Park, N.W.10.

FORKLIFT TRUCKS of every description for SALE or HIRE, including 7-ton Ross, 4,000/6,000lb. Coventry Climax, Electric and Diesel, all types. Advice given on all your mechanical handling problems. — B.G. PLANT (SALES AGENCY), LTD., Watlington, Oxon. Watlington 44.

MARSHALL ROLLER, 2½-ton, Lister Diesel. Completely overhauled, £220.—WALKER, Hook Green, Meopham, Kent. Telephone 3286.

TWO 32in. Stothert and Pitt Tandem Diesel ROLLERS, in first-class condition, £595 each. Write Box P.1099, "The Contract Journal."

FOR SALE, Avonside Saddle Tank Steam LOCO. Type 0/6/0. — Apply DOUGLAS, 209 Walsall Road, Perry Barr, Birmingham.

SCAFFOLD CRADLING

HIRED and ERECTED at reasonable prices

TELEPHONE

LONDON :	AMBassador 3456
BIRMINGHAM AREA :	Walsall 6085
BRISTOL :	Bristol 655244
SOUTH WALES AREA :	Penarth 57388
LEEDS :	Leeds 76514
LIVERPOOL :	Aintree 7335
MANCHESTER :	Deansgate 7054
NEWCASTLE :	Newcastle 86-9493
EAST COUNTIES AREA :	Saffron Walden 2552
SOUTHAMPTON AREA :	Locks Heath 3021

ACROW (ENGINEERS) LTD.

3/2 MIXERS 'Half-Bag'
FOR HIRE
30/- PER WEEK
PETROL OR ELECTRIC—1 PHASE
JOHN MACNAMARA & CO. LTD.,
Bush Rd., Deptford, London, S.E.8 Bermondsey 3275-1435

CRANES FOR SALE

- NEAL type "AM"—8 cwt. portable
- NEAL type "G" —15 cwt. portable
- NEAL type "N"—2 ton mobile
- NEAL type "NM"—2 ton mobile
- NEAL type "QMC"—6 ton crawler

All the above machines are works reconditioned and guaranteed

Also
- JONES "Super 40"—3 ton mobile
- JONES "Super 22"—2 ton mobile

Checked over and repainted

NEAL MACHINES AVAILABLE FOR HIRE

NEALS' SUPPLY CO. LTD.,
PLANT HOUSE, EALING, W.5. EALING 3171

CHASESIDE

USED CONTRACTORS' PLANT FOR SALE

DINKUM DIGGERS

1954 machine, in excellent condition, overhauled transmission, pins and bushes, Skyhi Front Shovel. Guaranteed, £745.

1954 machine, fitted with latest type Hydraulic Dozaloda. Every bit as good as 1957 machine. Guaranteed, £900.

1955 machine, fitted latest type Dozaloda. Requires small amount overhaul which can be done in user's workshop. As seen, £800. Guaranteed, £950.

GENERAL

1½ cu. yd. Diesel DUMPER, new 1958. Guaranteed, £300.

SMITH SUPER 10, ready to go on site, insured against breakdown, Backacter and Skimmer Attachments, £750.

MAIN DISTRIBUTORS for the new and revolutionary DINKUM DIGGER MAJOR HYDRAULIC EXCAVATOR and the WHITLOCK POWER SHOVEL for the counties of Hertfordshire, Bedfordshire, Cambridgeshire and Huntingdonshire.

Also full range of Earthmoving Equipment and Contractors' Plant, new and used.

Part exchange welcomed.

CHASESIDE MOTOR CO. LTD.,
47 CASTLE STREET, HERTFORD.
Telephone: Hertford 2486.

DOE'S COLUMN

GRAND CLEARANCE SALE

10% off all prices quoted for used industrial machines during February.

BULLDOZERS:

Platypus PD2 BULLDOZER, powered by Perkins P4 Diesel Engine. Good going concern. ..£295
Caterpillar D4 Diesel CRAWLER, fitted with Le Tourneau Cable-operated Bulldozer and rear-mounted Timber Winch. The lot £375
Bristol 22 Crawler BULLDOZER, powered by Perkins P3 Engine. A smart little Bulldozer. £375
International T6 Crawler TRACTOR. Bare machine. £135
1956 Mark III COUNTY CRAWLER, powered by 4D Diesel Engine, 14in. tracks, with Bray Angledozer. Well maintained, clean machine. £950
June, 1958, Howard Rotary Hoe TRENCHER, powered by Ford 4D Diesel Engine, with electric starting. Rotaped tracks, pipe layer, cuts standard 8in. wide, 42in. deep trench. This machine is in near perfect condition. Our customer is only changing because he wants a Super Trencher which cuts to 48in. deep. Price for quick sale £1,850
Caterpillar D4, 7J Series, standard gauge 13in. tracks, fitted La Plant Choate Hydraulic Angledozer. Being fitted new track chains and track plates, rebuilt bottom and top rollers. Engine recently overhauled. Offered in very good order, tested and resprayed. £885
1957 Track-Marshall Diesel Crawler TRACTOR, fitted with Bray Hydraulic Angledozer. This powerful Bulldozer has been overhauled recently and is ready for immediate work. £1,450
1953 Fiat 55L, just fitted new tracks and rebuilt rollers. The Hydraulic Angledozer is in really excellent order. Ready now. £1,250

MISCELLANEOUS
INDUSTRIAL EQUIPMENT:

Rob Roy 5/3½ CONCRETE MIXER, with Petter A1 Petrol Engine, mounted on four rubber-tyred wheels. All in very good order. £85
Oliver LOGGING BOW, with 4-ton lift. As new. £395
Isaacson Hydraulic Heavy-duty RIPPER, 5-tine, to work with Allis-Chalmers HD7, International TD14, or Caterpillar D6 Bulldozers.....£230
Caterpillar R2, in working order. £150
MacKay Hydraulic ANGLEDOZER EQUIPMENT, complete for Fiat 55L. £375
Blaw Knox ANGLEDOZER EQUIPMENT, complete for Fowler VF Crawler Tractor. ..£250
Onions Empire 4yd. Cable-operated SCRAPER. £375
Onions Empire 6yd. Cable-operated SCRAPER. £475
1955 Thwaites Tusker 1½-ton Four-wheel Diesel DUMPER. Overhauled. Choice of four. .....£250 each

ERNEST DOE & SONS LTD.
Ulting, Maldon, Essex

Telephones: Day—Hatfield Peverel 311. Sales, Mr. Hall; works, Mr. Bennett; field service, Mr. Claydon; stores, Mr. Woodham.
Night—Sales, Hatfield Peverel 319; Service and spares, Hatfield Peverel 312.

There is no better medium than

THE CONTRACT JOURNAL

for small classified advertisements

●

Telephone for linage rates to

WATerloo 3411

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

THE MANCHESTER COLLEGE OF SCIENCE AND TECHNOLOGY, Sackville Street, Manchester, 1.
FOR SALE:
(1) One Cochran Sinuflo Kirke BOILER, gas-fired, 160lb. sq. in. W.P., 4,000lb. per hour, new 1954.
(2) One pair Duplex Weir Reciprocating (Steam) Feed PUMPS for above, new 1957.
(3) One Cast-iron Sectional Tank by Mather & Platt, new 1957, 8ft. x 4ft. x 8ft. 6in. high.
(4) One Radiovisor INDUSTRIAL SMOKE DENSITY INDICATOR.
(5) One CO2 RECORDER RANGE 0/20 per cent.
Items (4) and (5) in one cabinet.
Further particulars and permission to view may be obtained from the Chief Engineer and Works Superintendent.

FOR SALE.
Hercules 8 BRICKMAKING PRESS, made by Herbert Alexander, Ltd., in 1951, approx. cost £2,500, Serial No. 20292, output 1,200 bricks per hour, price £670 net.
DUNBRICK MACHINE, output 1,800 bricks per hour, complete with 80 steel Stillage Racks and 8,000 steel 3-brick Pallets, each rack takes 132 pallets (396 bricks), price £550 the lot.
BATHCRETE, LTD., Cotswold Works, Standlake, near Witney, Oxon.

FOR HIRE, Drott TRACTOR SHOVELS with 4-in-1 Equipment, BTD6 Angledozers, Tippers. Let us quote you for EARTHMOVING, SITE CLEARANCE, EXCAVATION, etc.—WANTZ PLANT HIRE, LTD., 87 Glenny Road, Barking, Essex. 'Phone: Rippleway 1725, Rainham, Essex, 3844 and 3832.

AVAILABLE FOR HIRE. EXCAVATORS, BULLDOZERS, DUMPERS, MIXERS, Coles CRANES, etc. All classes of LORRIES, including Low-loaders.
AMEY'S AGGREGATES, LTD.,
Lower Wootton, Boars Hill, Oxford. Tel.: Oxford 35421.

FOR Defrosting Aggregates, we supply Small Portable Quick-steaming BOILERS with Steam Grids. Full steam in 10 minutes.—REED BROTHERS (ENGINEERING), LTD., Replant Works, Woolwich Industrial Estate, London, S.E.18. Tel.: Woolwich 7611/6.

FOR SALE, 1-, 2-, 3- and 4-tool Portable Diesel AIR COMPRESSORS, also 2-tool Lorry-mounted Mobile Unit. All excellent condition. Modern machines.—Write Box P.1056, "The Contract Journal."

FOR HIRE.—Available immediately, 1201 LIMA, fitted with genuine American 100ft. Crane Boom, Back Haul Gear, Bridle, etc., and in first-class condition.—PLANT SALES, LTD., 25 Castlereagh Street, London, W.1. Telephone: Paddington 2663/4.

FOR SALE, Two LIMA 1201s, fitted with Dragline, recently completely reconditioned, Service Exchange engines fitted to both machines this year.—Full details from Box P.1059, "The Contract Journal."

FOR SALE, Model J Benford MIXER, very good condition.—'Phone North 7074.

ELLIOTT BROS. (WORTLEY), LTD.
1957 County CRAWLER, with latest type Internal Arm Bulldozer and Winch and 4yd. Scraper, perfect and working, £1,300.
10RB EXCAVATOR, 8500 Series, 3VRON Engine, electric start, property from new of small Yorks. Town Council, Skimmer and Backacter or Crowd Shovel, a specimen machine, Crowd Shovel never been fitted from new, £1,000.
Smith 3/12, Blackstone Diesel, Crane-rigged and with Generator and Magnet for scrap loading, £660.
Smith 2/10, Fowler Diesel, choice of two, fully conditioned, any one equipment, £570.
N.C.H., latest of this type, with Crowd Shovel or any other equipment, Engine by Pelepone Diesels of Wakefield, 24-V start, exceptionally clean and modern cab, ready to work, £600.
Barford-Perkins ROLLER, 8/10-ton, ballast wheels, Albion Petrol Engine, narrow rear wheels, suitable pitching and trench reinstatement, Sprinklers, £600.
SMITH 2/10 EQUIPMENTS:
One Fowler 2-cyl. ENGINE, reconditioned and with new radiator, £130.
One Lattice Dragline JIB, FAIRLEAD and ¾yd. BUCKET, £150.
One Universal JIB and FORWARD SHOVEL, £120.
One BACKACTER ARM and BUCKET, £65.
One FORWARD SHOVEL, BUCKET and ARMS, £60.
N.C.H. EQUIPMENTS:
One FACE SHOVEL, Chain Crowd, £130.
One BACKACTER BOOM, ARMS and SHOVEL, £130.
One Dragline JIB, FAIRLEAD and ½yd. BUCKET, £130.
One Skimmer BUCKET and BOOM, £100.
TRACKS, TRUCK FRAMES and every SPARE for Smith 2/10 and N.C.H.
Chrysler DIESEL ENGINE, 6-cyl., power pack on bedplate with vee rope drive, at present driving 3in. high-pressure pump, brand new in crate, £170.
Chrysler Diesel Engine, suitable SPARES for above, £50.
One Opperman MOTOCART, £100.
One Butters 2-ton Hand CRANE, 35ft. Steel Jib, Guys and Ground Stays, £60.
One Sykes Diaphragm PUMP, £40.
One Ingersoll-Rand COMPRESSOR, 110ft. per min., suitable electric conversion, £35.
One Air Pumps Ditto, £35.
General purpose 2-wheel TRAILER, 1200 x 20 tyres, £70.
Three-wheel TRAILER, front castor, suitable Bristol Dozer, etc., as new, £80.
New 10ft. lengths 3in. PUMP HOSING, armoured inside and out, heavy gunmetal knock-on connectors, screwed 3in. iron, all threads are preserved by aluminium blanking plugs, £5 each.
Glen Works, Deepcar, near Sheffield.
(Tel.: Stocksbridge 3276.)
Deepcar is six miles west of Sheffield, on A.616 (Woodhead Road).

THE UNUSUAL PLANT SERVICE.
We claim to have the most comprehensive PLANT HIRE SERVICE in this country, and you can obtain from us almost everything the builder requires, from a drain plug to an excavator. Our lorries deliver in the London area every day. Note the telephone No.: Brentwood 2116.—SYMES (PLANT), LTD., Ongar Road, Brentwood, Essex.

FOR HIRE, RAMMERS, ROLLERS, PUMPS, MOBILE COMPRESSORS; new machines.—'Phone North 7074.

PLANT BARGAINS:
Drott BTD6 4-in-1 Shovel, 1958, £2,450.
TD14A with Dozer, P.C.U., 6yd. Scraper and Crane, £1,450.
Dinkum DIGGERS, complete with Front Shovel. From £850.
10RB, 17000 Series, Skimmer, Backacter and Dragline, £1,450.
D6, with Blade and Double Drum P.C.U. Rough, £250.
Rapier 410, Skimmer, Trencher Shovel, Diesel, £950.
Greens 6½-ton Petrol/Paraffin ROLLERS, £650 each.
Stothert and Pitt 4¼cwt. Vibrol, £85.
Liner 4ft. 6in. Diesel PAN MIXER, £185.
Stothert and Pitt 10/7 Diesel MIXERS, four steel wheels, £185.
Whitlock Hydraulic ⅝ cu. yd. DOZALODA, 1957, £750.
Eezion 7-ton MACHINERY TRAILER, £350.
Tasker 10-ton ARTIC LOW-LOAD TRAILER, £450.
Aveling-Barford 4-ton Petrol ROLLER, ex-Ministry, £475.
Rapier 4in. Diesel CONTRACTORS' PUMPS, £185.
Ace Comet HOIST, Mobile, Diesel, Pneumatics, £225.
Hemel MOBILE HOISTOWER, 5/7cwt., Diesel, Pneumatics, £175.
Douglas PLATFORM TRUCK, 6ft. x 3ft., Petrol Engine, £75.
Rex 14/10 Diesel MIXERS, Ruston Engine, £250.
Greens 15cwt. Unirol, pedestrian operated, £185.
Two sets Portable 12yd. BINS, ex Weighbatch Units, £175 each.
Aerostyle one-gun Petrol SPRAYING COMPRESSOR, £40.
Muir-Hill LOADING SHOVEL, P6 Diesel Engine, £195.
1,200-gallon TANK, on Ford V8 lorry, Excellent, £125.
Millars 3in. DIAPHRAGM PUMPS, Petrol, £25.
Ransomes and Pegson 2in. CENTRIFUGAL PUMPS, £30 each.
Unused Pegson 4in. PUMPS, 36,000 gallons per hour £125 each.
WILLIAM R. SELWOOD, LTD.,
Chandler's Ford, Hants. 'Phone 2275.

EX STOCK.
New J.C.B. Hydra-Digga/Loadall 65 EXCAVATORS and Accessories.
New Broomwade WR120 Rotary AIR COMPRESSORS.
New Johnson ¾yd. 1-ton Diesel DUMPERS.
EX STOCK.
MARSH PLANT AND MACHINERY CO., LTD.,
Emsworth, Hants. 'Phone 2032, 2634.

FOR SALE, 54RB, 22000 Series, on long and wide tracks, Dragline Equipment. Thoroughly overhauled and in first-class condition.—PLANT SALES, LTD., 25 Castlereagh Street, London, W.1. Telephone: Paddington 2663/5.

PLANT HIRE.—Earthmoving, Site Clearance, Excavations for Roads, etc.
DOUGLAS HAMILTON, LTD.,
Tunbridge Wells. Telephone: Southborough 1538.

FOR SALE, Ransomes Rapier 423, with three equipments. No reasonable offer refused.
A. H. HOOKER AND SONS, LTD., Leeds, Maidstone, Kent.

WANTED, SIDE-TIP WAGONS, 4ft. 8½in. gauge, 6 cu. yd. cap.; also 2,000 yd., 24in. gauge Track with Turnouts, Tip Wagons, etc.—Full particulars, price, to Box P.1005, "The Contract Journal."

600
PROCESS PLANT FOR SALE

SUPER SPARTAN RECIPROCATING SCREEN by Robert Cort, 4ft. wide, comprising two parallel trays, each 16ft. 6in. long, suspended from framework by rocking links. First tray with ⅝in. dia. perforations, three panels with 1¼in. dia. perforations, and one dead plate; second tray 1¾in. dia. perforations and four dead plates. Each tray connected to overhead driveshaft fitted two flywheels, mounted on roller bearings and vee belt driven from 5-h.p. 400/440/3/50 cycles motor with starter.
ROTARY DRIER by Maniove Alliott, 23ft. 6in. long x 6ft. dia., shell of ¼in. mild steel welded construction with serrated flights and spiral plates. Driven through girth gear and pinion and countershaft by 20-h.p. 400/3/50 cycles motor. 24in. dia. Paddle-type Fan driven by 7-h.p. 400/3/50 cycles motor; 6ft. dia. Cyclone and screen discharge hood.
NO. 15 ROTARY DRUM DRIER by Buell, 26ft. long x 5ft. dia., flange bolted in two halves of ⅜in. riveted steel construction. Drier on two roller paths, arranged for solid fuel firing, with High Efficiency Cyclone, Fans and ducting.

GEORGE COHEN
Sons & Company Limited
WOOD LANE, LONDON, W.12.
Telephone: Shepherds Bush 2070.
And Stanningley, nr. Leeds. Tel.: Pudsey 2241.

CONTRACTING EQUIPMENT

Two Wild Fawcett Rail-mounted TOWERED SLEWING CRANES, manufactured in 1953, with 42ft. 6in. Jib.
One Hilgers Volger Rail-mounted TRAVELLING TOWER CRANE, Model BDK75, Jib 45ft. 6in. Supplied by Messrs. Abelson and Co.
Two A.C.E. HOISTS, 30cwt. capacity, able to lift to height of 100ft.
One aditional spare WINCH as incorporated with the A.C.E. Hoists.
Two HOPPERS for use with A.C.E. Hoists.
Two BATCH WEIGHING MACHINES, manufactured by Messrs. Avery, Birmingham.
Three Electric CONCRETE MIXERS.
Two 167 c.f.m. Broomwade COMPRESSORS.
One Diesel driven PORTABLE CONCRETE MIXER.
50 Tracked TOWING AMBULANCES.

J. T. LEAVESLEY, LTD.,
Alrewas, Staffordshire.
'Phone: Alrewas 354/5/6.

TWW

RAILS FOR SALE
100 tons New, Slightly Defective B.H. RAILS, 95lb. yd., chiefly 60ft.
100 tons Slightly Defective F.B. RAILS, 109lb. yd., chiefly 60ft. lengths.
100 tons New, Slightly Defective F.B. RAILS, 91lb. yd., chiefly 42ft.
100 tons Good Second-hand B.H. RAILS, 80/85lb. yd., B.S. Section, chiefly 60ft.
100 tons Second-hand B.H. RAILS, 90/95lb. yd. chiefly 44ft. 6in. lengths.
50 tons New, Slightly Defective F.B. RAILS, 93.34lb. yd., chiefly 41ft.
50 tons new, Perfect F.B. RAILS, 75lb. yd., R.B.S. chiefly 40ft. lengths.
1,500 tons Unused but Stock Rusty F.B. RAILS, 75lb. yd., R.B.S., chiefly 36ft.
50 tons New, Slightly Defective F.B. RAILS, 80lb. yd., Revised B.S. Section, lengths chiefly 40ft.
50/100 tons Second-hand F.B. RAILS, about 60lb. yd., 24ft., 27ft., 30ft. and 45ft.
10 tons Second-hand COACH SCREWS, 6¾in. x 1⅞in., Standard Railway Pattern.
50 tons MILD STEEL FLAT, 5in. x ½in., new but stock rusty, 15ft. to 26ft. chiefly.
Ward's also have Large Stocks of all classes of other Railway Materials.

THOs. W. WARD LTD.,
ALBION WORKS - - - - SHEFFIELD
'Phone: 24311—Ext. 307.

Hire them from
JOSEPH PUGSLEY AND SONS LTD *Lawrence Hill* **BRISTOL, 5**
TELEPHONE 56037 (4 Lines) · GRAMS, 'PISTON', BRISTOL·

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

CONTRACTORS' PLANT for SALE or HIRE.

EXCAVATORS:

Ruston 33RB, 16222 Series, 1954 model, Dragline, 70ft. Jib and Face Shovel, good working order and may be seen working. £4,650 or near offer.

Ruston 10RB, 13100 Series, Skimmer and Backacter or Dragline, good working order, may be seen working, £1,250.

Ruston 10RB, with Skimmer and Eackacter, Face Shovel, good working order, £750

Priestman Wolf, 1953, with Backacter Equipment, very good condition, £1,275.

Priestman Cub, ex M.o.A.F.F., Dorman Diesel Engine, Dragline or Skimmer and Backacter, very good working order, £575.

Priestman Cub Mk. III (choice three), from £175.

Ransomes and Rapier 431. ¾yd, Face Shovel and Backacter, £450.

CRANES:

Coles 5-ton EMA, fully slewing, Rope Derrick, on Thornycroft Diesel, 6 x 4 Short Chassis, good working order, may be inspected at work, £1,950.

Neals NM 2-ton, Diesel Engine, on pneumatics, fully slewing, £650.

Jones Super 20, Diesel, on pneumatics, fully slewing, ex Ministry, done very little work from new, very good working order, £550.

Morris 2½-ton and 5-ton, ex Ministry, practically unused, from £275.

Mercer, on solids, 3-ton, good working order, £250.

TRACTORS AND DOZERS:

Caterpillar D8, 18 Series, fitted Le Tourneau P.C.U., £1,100.

Caterpillar D8, 8R Series, complete Double Drum P.C.U., very good working order, £1,450

Caterpillar D8, 2U Series, with Le Tourneau P.C.U., may be seen working, £1,850.

Caterpillar D8, 2U 7900 Series, fitted Birtley Hydraulic Angledozer, £2,750.

Caterpillar D8, 7900 Series, fitted Caterpillar Winches (choice two), one with Cable Angledozer, may be seen working, both thoroughly overhauled 1959, £3,500.

Caterpillar D7, 7M, ex Ministry machine, as new, £1,950.

Caterpillar D7, 3T Series, fitted Cabledozer and Onions P.C.U., ex Ministry, as new, £2,950.

Caterpillar D7, 3T 17000 Series, fitted Birtley Hydraulic Angledozer, very good condition, £3,250.

Caterpillar D7, 3T 25000 Series, fitted Birtley Hydraulic Angledozer, Caterpillar, P.C.U. and Side-boom Crane Attachment, all very nice condition, £3,650.

Caterpillar D4, fitted L.P.C. Hydraulic Angledozer from £500.

Caterpillar D4, 2T Series, fitted Hydraulic Angledozer, overhauled, good working order, £1,150.

L.P.C. Hydraulic ANGLEDOZER for Caterpillar D4, from £275.

Le Tourneau P.C.U. for Caterpillar D4, £125.

Caterpillar D4, 6U Series, fitted L.P.C. Hydraulic Angledozer, good working order, £1,250.

Caterpillar D2, 3J Series, fitted L.P.C. Hydraulic Angledozer (choice two), from £550.

Caterpillar D2, 4U Series, checked over and resprayed, with L.P.C., Hydraulic Angledozer, £950.

International TD24, fitted Ruston P.C.U., checked throughout and resprayed, ready for work, £2,750

International TD18, with Hydraulic Angledozer and P24 Winch, very good condition, may be seen working, £1,500.

International TD18, in working order, £550.

International TD9, wide gauge, with Hydraulic Angledozers and Winches if required (choice two), from £750.

International TD6 and BTD6, fitted Hydraulic Angledozer and Anthony Overloader, from £650.

Allis-Chalmers HD5, with Hydraulic Angledozer, £950.

Allis-Chalmers HD10, with P.C.U. and Cable Angledozer, new tracks fitted Spring, 1959, in very good condition, £1,250.

Fowler Challenger III, with Hydraulic Angledozer (choice two), from £750

Fowler VF, fitted Bray Hydraulic Angledozer (choice two), good working order, from £350.

Fordson County, new and old type Diesel fitted, Hydraulic Angledozer, from £350

Clarke Airborne, fitted Hydraulic Dozer and Winch, ex Forestry commission machine, good working order, £150.

International TD6, fitted Hydraulic Angledozer and Anthony Hoist Overloader, engine reconditioned, resprayed and transferred, good working order, £1,250.

International BTD6, Drott Shovel, checked over, resprayed and transferred, very good working order (choice two), from £1,750.

SCRAPERS, 4/15yd.

Caterpillar D2 ROLLERS, new, ex Ministry, £10 each.

Caterpillar D4 ROLLER SHELLS, single and double flange, new, ex Ministry, £7 each.

Caterpillar D6 TRACKS and GROUSERS, £400 per set.

Caterpillar D8 END COLLARS, 7B9966 and 7, 350 of each.

Caterpillar D2 4-CYL. ENGINE, ex Ministry £120.

"A" FRAMES for L.P.C. Equipment, D7 and D8, ex Ministry, from £80.

ANGLEDOZER BLADES for L.P.C. Equipment, for D6, new, ex Ministry, £65 each.

Ex Government Stock Heavy Engine and Gear Oil in 4½-gallon jerry cans at 25s. per can. Analysis on request.

For further particulars, apply:
MITCHAM AND SONS, Burwell, Cambs. Burwell 226.

COMPRESSORS: ATLAS 2-tool, mounted on Fordson Diesel Tractor, completely overhauled and in excellent order. ATLAS Single-tool, as above. W. V. DAVIES, Shipston-on-Stour. 'Phone 125.

WANTED to PURCHASE, up to Five 19RB DIGGERS, with Face Shovels and/or Backacting Equipment. State price and condition.
Write Box P.1144, "The Contract Journal."

REQUIRED, DRAGLINE EQUIPMENT, complete with Jib, for Smith 8 Excavator.—Full details to Box P.1106, "The Contract Journal."

GRAYSTONS OFFER FOR SALE.

OP.192.—10RB EXCAVATOR, 9890 Series, Dragline Equipment, £725.

OP.203.—19RB EXCAVATOR, 10700 Series, Skimmer/Backacter Equipment, £1,400.

OP.205.—22RB EXCAVATOR, 19887 Series Face Shovel Equipment, very good condition, £3,550.

E.1052.—24RB EXCAVATOR, 17000 Series, Dragline Equipment, £3,200.

E.1085.—37RB EXCAVATOR, 7300 Series, Dragline Equipment, very good condition, £3,000.

OP.201.—NCK304 EXCAVATOR, 1025 Series, fully rigged for crane work, 70ft. Jib, Power Boom lowering, 10-ton Hook Block, Full Set Weights, powered by Thornycroft NR6 Diesel Engine, very good condition, £2,400.

E.1039.—43RB EXCAVATOR, 19000 Series, F/S Equipment, very good order, £7,200.

E.994.—38RB EXCAVATOR, 22000 Series, long and wide tracks, 60ft. Dragline Equipment, 1¾ cu. yd. Bucket, worked less than 12 months, excellent condition, £11,200.

E.828.—NCK304 EXCAVATOR, Dragline Equipment, A.E.C. Diesel Engine, £2,450.

OP.199.—19RB, Skimmer/Eackacter Equipment, £275.

OP.199.—19RB, Dragline Equipment, Butt-type Jib, £325.

E.1106.—Michigan C16 EXCAVATOR, with Skimmer/Backacter, Face Shovel, Dragline and Crane Attachment, £1,350.

A.603.—Broomwade SVD1 110 c.f.m. Diesel COMPRESSOR, £345.

A.604.—Broomwade SVD3 350 c.f.m. Diesel COMPRESSOR, £550.

A.600.—C.P.T. 500 c.f.m. COMPRESSOR, Ruston Diesel Engine, £725.

CP.548.—Winget 14/10 MIXER, Closed Drum, Diesel, reconditioned, £130.

CP.567.—Dalli Hand Scraper WINCHES, £165 each.

P.47.—Several 4in. and 6in. Diaphragm and Centrifugal PUMPS, Diesel, very good condition. Price on application.

CP.546.—1 cu. yd. S. and P. BATCHING PLANT, with 40-ton Hopper, reconditioned, £1,850.

C.781.—Coles 3-ton Diesel/Electric Mobile CRANE, 16ft. Jib, overhauled, £700.

OP.198.—Neals QM MOBILE CRANE, 4/6-ton, with 50ft. Jib, £2,725.

OP.186.—Neals NM MOBILE CRANE, Ruston Diesel Engine, Jib up to 35ft. Straight Lattice, good condition, £1,075.

OP.178.—Neals G CRANE, powered by J.A.P. Petrol Engine, with 20ft. Lattice Jib, £200.

TS.3.—HT4 TRAXCAVATOR, very good condition, £2,175.

T.1049.—BTD6 TRACTOR, with Angledozer, recently fitted new tracks, rollers, etc., £975.

TE.460.—3-tine RIPPER, 3-ton model, £365.

TE.461.—Sheepsfoot ROLLER, Double Drum, £275

D.129.—Two Thwaites 1½ cu. yd. DUMPERS, £195 each.

D.126.—2/3 cu. yd. Muir-Hill 10BD DUMPERS, with Ford 4D Diesel Engines, £435 each.

OP.147.—3-ton Butters Electric DERRICK, 100ft. Jib plus 10ft. extension, £800.

C.839.—10-ton Anderson-Grice Steam DERRICK, 120ft. Jib, £2,800.

OP.148.—7/10cwt. Double Barrow Wickham HOISTS, 22ft. Masts, Mobile, £95 each.

PP.47.—Woodfield 50ft. RAKING PILE FRAME, with No. 14 Spencer-Hopwood Boiler and 3-ton Double Drum Winch, £1,850.

D.125.—Four Euclid Model 27FD Rear DUMP TRUCKS, with Cummins Engines, £1,825 each.

A number of Tower Cranes available, various makes and models to cover a comprehensive range.

GRAYSTON PLANT AND ENGINEERING CO., LTD.,
32 Stewarts Road, London, S.W.8.
Tel.: Macaulay 6688 (10 lines).

AIR COMPRESSORS FOR SALE. Two Bellis and Morcom 2,450 c.f.m., 100 p.s.i., 550-h.p. motor, Broomwade, 500 c.f.m., EH251; 400 c.f.m., EH245; 300 c.f.m., EH240; 150 c.f.m., D22A; 100 c.f.m., EP660; also numerous others of all makes; and AIR RECEIVERS from 1ft. to 9ft. dia., 100lb to 1,000lb., w.p.
FRED WATKINS (ENGINEERING), LTD.,
Coleford, Glos. 'Phone: Coleford 2271/2.

SLOGGETTS (ENGINEERING) CO., LTD.
For HIRE, DUMPERS, all sizes.
2 Burtons Road, Hampton Hill, Middlesex.
Telephone: Teddington Lock 1138/9.

FOR SALE, one late 15A D8 Caterpillar TRACTOR, complete with Eirtley Cabledozer Equipment, Onions 15/21yd. Scraper M1 1001, all in A1 condition.—Write Box O.O.383, "The Contract Journal."

ALLEN 12/21 for SALE, good condition, £1,000.—WHITEHEAD OF MANSFIELD, Mansfield (Tel. 1321), Notts.

AVAILABLE for HIRE or CONTRACT, D9 and D8 TRACTORS with Blade or Scraper.—ELLIOTT, Wetherby Road, York. Tel. 78220 and 78501.

URGENTLY REQUIRED, SHEET STEEL PILING, in any length and section considered.—Write Box C.C.386, "The Contract Journal."

HOLE & SON (SAYERS COMMON) Ltd.
Head Office - - - Sayers Common, Hassocks, Sussex
HEAVY HAULAGE CONTRACTORS
LOW-LOADERS and HYDRAULIC TIPPERS FOR HIRE
Telephone - - - HURSTPIERPOINT 2279 & 2153

NEAGRON (CONSTRUCTION), LTD.
OFFER FOR SALE:

One 24RB ¾ cu. yd. EXCAVATOR, 60ft. Dragline Equipment, Ruston Diesel Engine, in working condition. New 1945, £1,000.

ALLAM Poker type VIBRATORS, J.A.P. Petrol Engines, 15ft. Shaft and 2¼in. Head, overhauled and repainted, new 1955, £30 each.

ROAD MACHINES 14 cu. ft. Double Bucket Swing WEIGHBATCHER, pneumatic tyres, very good condition, overhauled and repainted, new 1957, £125.

BLAW KNOX Universal WEIGHBATCHER, comprising Cement and Aggregate Storage Bins, Multi Bucket Aggregate Loader, Blower Unit, Weighing Dial, etc., new 1955.

Approx. 1,200 ACROW FLOOR CENTRES, Nos. 1, 2, 3 and 4. Acid Tank cleaned. First-class condition.

SILVER KNIGHT 4-berth CARAVANS, 15ft. 6in. long x 6ft. 9in. wide, height 6ft. 6in., all necessary fittings, little used and in perfect condition.

BROOMWADE SV128 2-tool Portable COMPRESSOR, Lister Model FR3 Diesel Engine, mounted four pneumatic-tyred chassis, new 1957.

C.P.T. Type P08 500 cu. ft. COMPRESSOR, 100lb. pressure p.s.i., Ruston 6VPHN Diesel Engine, donkey engine starting, good working condition, new 1952.

AVELING-BARFORD 4½ cu. yd. DUMPERS with Rock bodies, Dorman Diesel Engines, new 1954/56.

NEALS NMC 2-ton MOBILE CRANES, 30ft. Lattice Jibs, Ruston 2VTH Diesel Engines, crawler mounted, very good condition, new 1951.

JONES KL44 3/4-ton MOBILE CRANES, 30ft. or 50ft. Lattice Jibs, Ruston Diesel Engines, electric starting, Visual and Audible Radius Indicators, excellent condition, new 1955.

MICHIGAN Model C16 ½ cu. yd. EXCAVATOR, rigged as crane, 45ft. Jib and new Wylie Visual and Audible Indicator, G.M. Diesel Engine, very good condition, new 1947.

SMITH 5-ton Steam Loco. CRANES, 35ft. or 40ft. Jibs, single drum machines 4ft. 8½in. gauge completely reconditioned.

PINGON P20 2½-ton Climbing and Rail-mounted TOWER CRANE, 82ft. Jib, Rail Bogie, Nine Mast Sections, Climbing Gear, Remote Control, 150ft. Track etc., new 1956.

MORGAN 10-ton Electric Derrick CRANE, 120ft. Jib, 2-motor type, set of three Dumb Bogies, very good condition, new late 1954.

MORGAN 15-ton Electric Derrick CRANE, 120ft. Jib, not worked since April, 1959, well maintained, new 1956.

Set of three 4ft. 8½in. gauge 10-ton Derrick BOGIES.

10RB ⅜ cu. yd. EXCAVATOR, Skimmer and Backacter Equipments, 18in. and 30in. Buckets, Ruston 3YCEN Diesel Engine, excellent condition, new 1958.

54RB 2½ cu. yd. EXCAVATOR, 80ft. Dragline and Face Shovel Equipment, Paxman Diesel Engine, recently overhauled, first-class condition, new 1953.

WINGET 10/7 CONCRETE MIXERS, Models 7THR, Petter AVA1 Diesel Engines, good working condition, new 1956.

BLAW KNOX 14/10 cu. ft. CONCRETE MIXERS, Cleanline models, Petter AVA2 Diesel Engines, very good condition, new 1956.

PORTASILO, Model 13, 13/14-ton capacity CEMENT CONTAINER, 250lb. Mechanical Weighman, very good condition, new 1954.

BLAW KNOX 6in. CONCRETE PUMP, Dorman 4DS Diesel Engine, mounted four pneumatic tyres, 820ft. run Concrete Pipeline, new 1955.

RUSTON AND HORNSBY Diesel LOCOMOTIVES, 33/40-h.p., Ruston 3VRO Diesel Engines, 2ft. gauge, overhauled, very good condition.

VIBRO VERKEN Type BV Diesel/Electric CONCRETE SPREADING MACHINE, Deutz Diesel Engine, used one contract since reconditioned, new 1955.

S.G.M.E. COMPACTOR, Lister Diesel Engine, first-class order, new 1958

AVELING-BARFORD 10-ton ROAD ROLLER, Ruston 3VSH Diesel Engine, very good condition, little used, new 1949.

INTERNATIONAL Drott B6K3 Tractor SHOVEL, 1 cu. yd. Bucket, excellent condition, new 1958.

CATERPILLAR D9 19A Series TRACTOR, Cable Angledozing Equipment, pusher button, Caterpillar 29 C.C.U., new 1958.

WINGET-PARSONS 221 TRENCHER, 16in. and 24in. Bucket Lines, Dorman 4DWD Diesel Engine, first-class condition, new 1950.

Excavator Equipments, Crane Jibs and Sections ex stock, or fabricated to order, London Depot.

FURTHER DETAILS:
Abbey House, Victoria Street, London, S.W.1.
Telephone: ABBey 5152 (4 lines).

FOR SALE, 10 Stothert and Pitt 10/7 Petrol-engined CONCRETE MIXERS, in excellent condition, ex Admiralty, £75 each.—L. W. VASS, LTD., Ampthill, Bedford. Telephone: Ampthill 3255.

WANTED.
Two D8 2U BULLDOZERS.
Two LP Le Tourneau SCRAPERS.
Write Box P.1079, "The Contract Journal."

FOR SALE, David Brown DB50 Diesel-driven CRAWLER TRACTOR, with Hydraulic Dozer.—WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

WANTED, 10-ton and 8-ton Diesel ROLLERS, not more than five years old. FLAVELL CONSTRUCTION CO., LTD., Leeds Road, Wakefield.

C.P.T. COMPRESSOR, 210 cu. ft., Serial No. F193919, fitted with Caterpillar type D8800 engine, in fair running order. Lying King's Lynn. Offers. Write Box P.1139, "The Contract Journal."

FOR SALE, 20-ton PORTASILO, less than year old, excellent condition.—DUDLEY VALE, LTD., 3 Buckingham Place, London, S.W.1. Tel.: Victoria 0252.

CAMBRIDGE

HIRE—SALES—SERVICE

Modern Diesel
COMPRESSORS
EXCAVATORS
TRENCHERS
BULLDOZERS

MOSS
CAMBRIDGE LTD.

146 HILLS ROAD, CAMBRIDGE. *Phone:* 87519

Modern Diesel
ROLLERS
DUMPERS
MIXERS
PUMPS, ETC.

NOW THERE ARE — 5

NEW STREAMLINED LEVERTON DEPOT AT ROTHERHAM IS NOW FULLY OPERATIONAL

Another centre of Leverton service—equipped to give 100% efficient service to the Caterpillar Earthmoving Equipment owner. Caterpillar trained experts always available to keep all machines working at peak earning capacity.

This new Depot carries comprehensive stocks of all genuine Caterpillar parts, expertly identified for correct supply and available over the counter or by despatch. Parts assembly exchange units promptly supplied; field and workshop overhauls and track reclamation carried out by Caterpillar trained service engineers; experienced sales engineers are always on hand to advise and quote on the right Caterpillar Equipment for your particular job.
CATERPILLAR plus LEVERTON=PROFIT!

❊ *NEW* PARTS FACILITIES ❊ *NEW* SERVICE FACILITIES ❊ *NEW* SALES FACILITIES

YOUR CATERPILLAR DEALER

LEVERTON

THE LEVERTON GROUP OF COMPANIES

SPALDING Spalding, Lincs. Tel: Spalding 3221

LEEDS Gildersome, Leeds. Tel: Morley 4221

NEWCASTLE
Team Valley Trading Estate, Gateshead.
Tel: Low Fell 78511

WIGAN
Wigan Rd., Bryn, Ashton-in-Makerfield.
Tel: Ashton-in-Makerfield 7675

ROTHERHAM
Meadow Bank Rd., Rotherham.
Tel: Rotherham 78259

Caterpillar and Cat are Registered Trade Marks of Caterpillar Tractor Co.

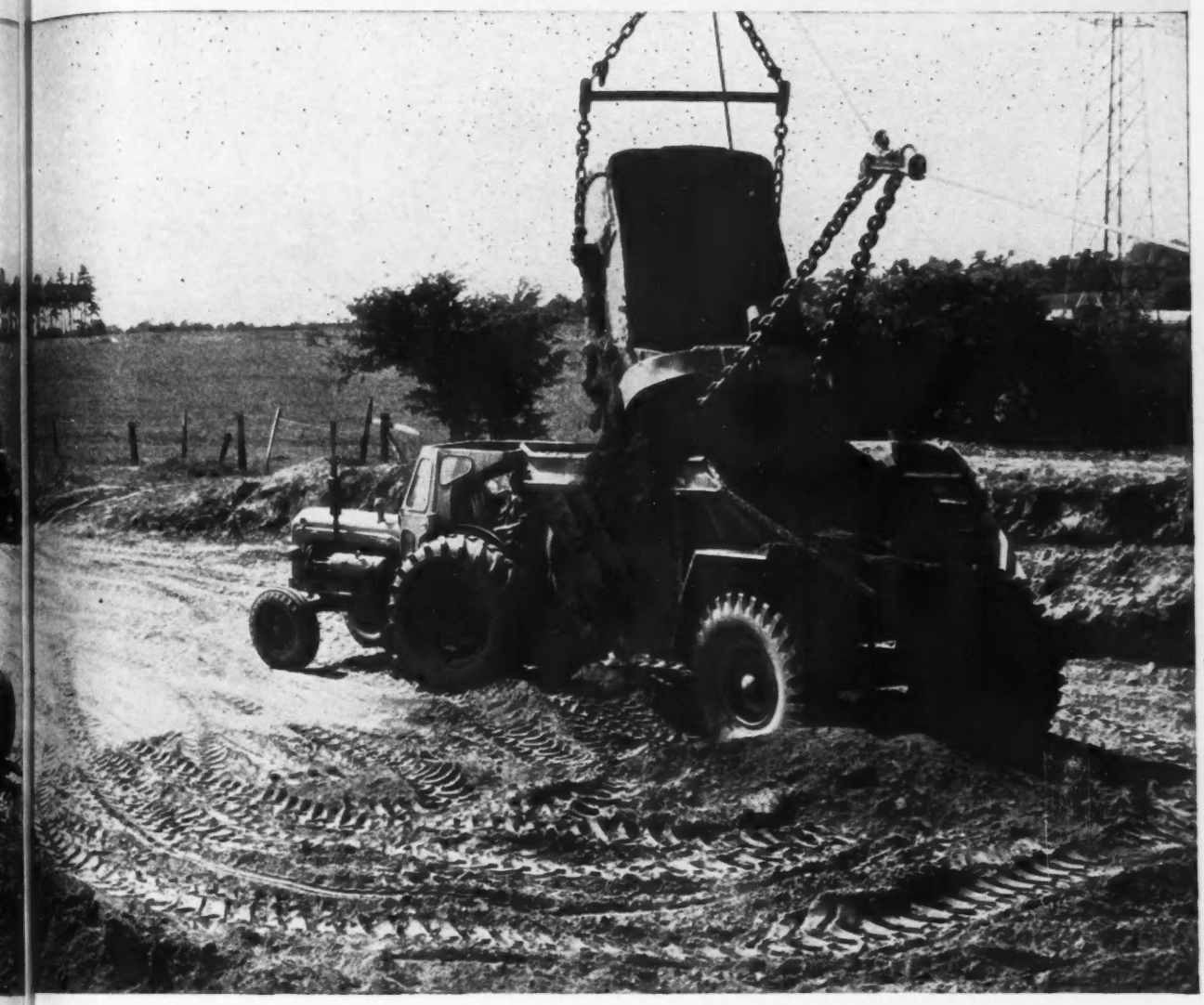
THE Shawnee Poole SYSTEM OF MOBILITY

The only system of earth-moving haulage that gives you up to 110° of turn and saves up to an estimated 40% on total operating costs on this work.

Write today for your copy of the Shawnee-Poole book from:

STEEL FABRICATORS (CARDIFF) LTD., PENGAM ROAD, CARDIFF. Phone: Cardiff 44436/7/8/9

AND ECONOMY IN EARTH-MOVING HAULAGE



The Shawnee-Poole 7 cu. yard (10 ton) Rear Dump unit has the greatest manoeuvrability of any off-road method of transport with its ability to negotiate the roughest ground or the steepest gradient with complete stability. No fuel is wasted because there is no built-in weight, of the fuel consumed, approximately one-third is used to move the vehicle and two-thirds used to move the pay-load.

First cost is lower, which leads to savings on interest on capital outlay and depreciation, maintenance is reduced, the Rear Dump having few moving or wearing parts and there is no non-functional equipment on the unit. No expensive site preparation is needed with the Shawnee-Poole system, and the high degree of mobility means small inexpensive loading areas, steeper inclines and no need for good site roads.

Shawnee Poole

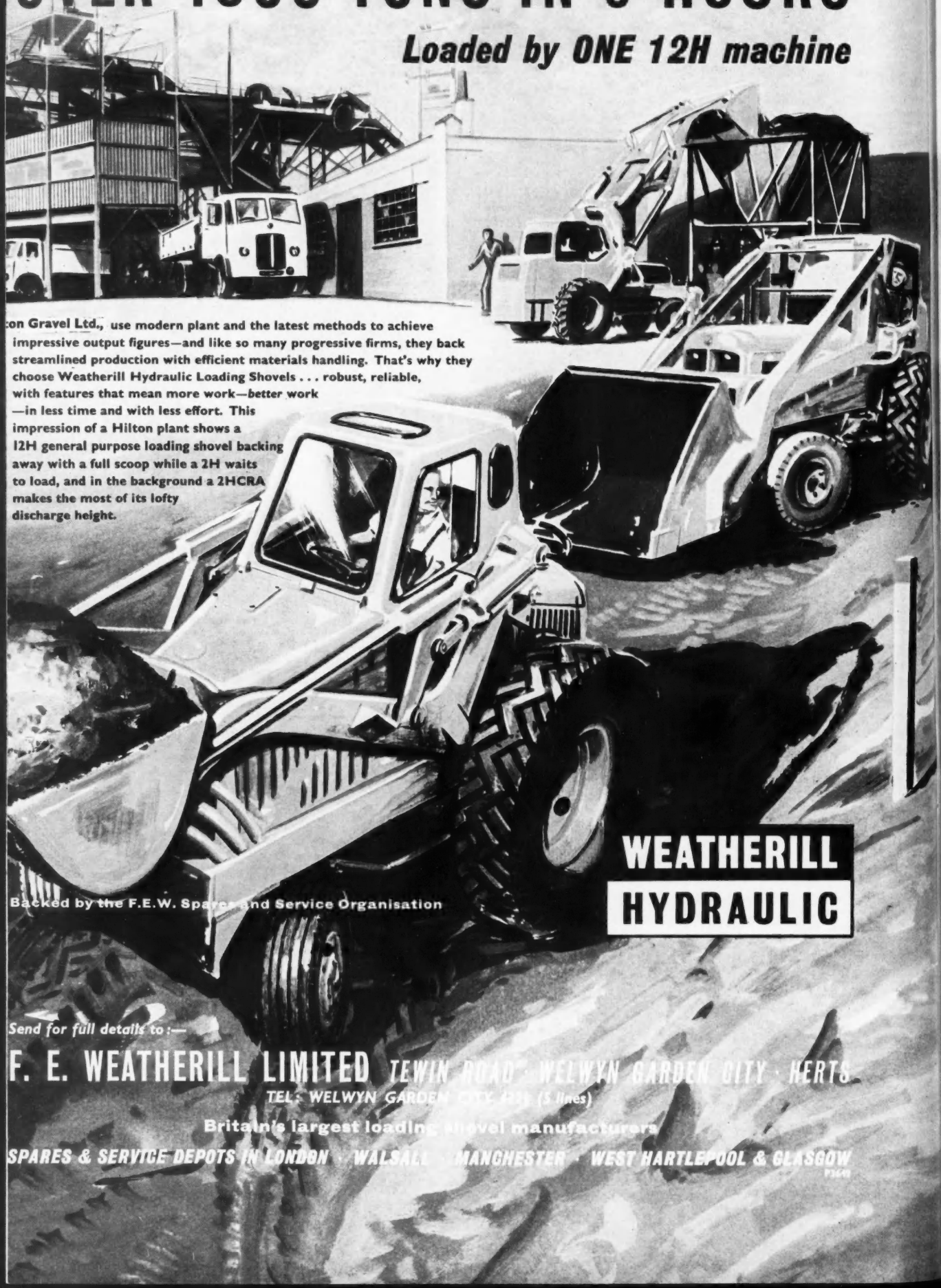
System of MOBILITY & ECONOMY IN TRANSPORT

Export enquiries to: STEEL FABRICATORS (OVERSEAS) LTD., 1 BAKER STREET, LONDON W1. Tel: WELbeck 0751/2 Cables: STEELOADER, LONDON

H-W.147

OVER 1000 TONS IN 9 HOURS

Loaded by ONE 12H machine



:on Gravel Ltd., use modern plant and the latest methods to achieve impressive output figures—and like so many progressive firms, they back streamlined production with efficient materials handling. That's why they choose Weatherill Hydraulic Loading Shovels . . . robust, reliable, with features that mean more work—*better work*—in less time and with less effort. This impression of a Hilton plant shows a 12H general purpose loading shovel backing away with a full scoop while a 2H waits to load, and in the background a 2HCRA makes the most of its lofty discharge height.

WEATHERILL HYDRAULIC

Backed by the F.E.W. Spares and Service Organisation

Send for full details to :—

F. E. WEATHERILL LIMITED *TEWIN ROAD · WELWYN GARDEN CITY · HERTS.*

TEL: WELWYN GARDEN CITY 4281 (5 lines)

Britain's largest loading shovel manufacturers

SPARES & SERVICE DEPOTS IN LONDON · WALSALL · MANCHESTER · WEST HARTLEPOOL & GLASGOW

Ripping rock on the Ross Spur

TARMAC CIVIL ENGINEERING LIMITED
are using their
CATERPILLAR D8 TRACTOR
and a D9 Tractor on hire from
Smiths Plant Hire & Contractors
(Cheltenham) Limited
supplied by
BOWMAKER (PLANT) LIMITED

464,000 cu. yards of rock have been ripped and moved on this Contract which now nears completion and is well up to schedule.

Maximum output for one Caterpillar Series H.D? Tractor was 200 cu. yards of rock per hour.

The close proximity of houses to the site has made blasting impossible but the ripping operation carried out by Caterpillar Crawler Tractors has greatly assisted progress.

Other Caterpillar earthmoving equipment used on this contract by Tarmac Civil Engineering Limited includes a No. 977 Side Dump Traxcavator, a No. 955 Traxcavator and numerous Caterpillar D8 and D4 Tractors.

Both Caterpillar and Cat. are Registered Trade Marks of Caterpillar Tractor Co.

BOWMAKER (PLANT) LIMITED
NOOSE LANE WILLENHALL STAFFS Tel. Willenhall 696

COLCHESTER AVENUE
COLCHESTER TRADING ESTATE, CARDIFF
Tel. Cardiff 45661

HULSE ROAD
SALISBURY
WILTSHIRE
Tel. Salisbury 4965

FENNY BRIDGES GARAGE
NR. HONITON
DEVON
Tel. Feniton 206

CHESTERFIELD ROAD
CLAY CROSS
DERBYSHIRE
Tel. Clay Cross 3133

backed by BOWMAKER PARTS & SERVICE

MATBRO *Mastiff*

Judge a machine by its performance, buy it on specification and cost. On all three points, the Matbro Mastiff can claim undoubted superiority in the field of earth moving machinery.

The Mastiff Loading Shovel combines a 14,000lb. tractive force with exceptional manoeuvrability. Patented centre point articulation allows the 4-wheel drive to be continuously engaged without wind-up of axles. The Mastiff can work at 90° in narrow aisles with full control, under load, on awkward turns and gradients. Power steering and grouped controls make the heavy duty Mastiff as light as a feather to operate.

Excavating and climbing out with full bucket.
Gradient approximately 1 in 3.

MATBRO

MATBRO LTD

EARTH MOVING DIVISION (Dept. CJ/2), HORLEY, SURREY

A Member of the Matbro Group of Companies

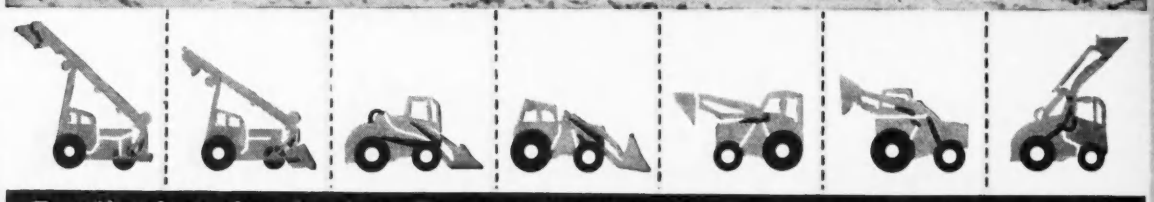
4-WHEEL DRIVE 96 h.p. LOADING SHOVEL

The superb specification provides for heavy duty working under all conditions, with a materials strength to give a more than adequate safety margin. On demonstration you can see for yourself the performance and quality . . . **then consider that the Mastiff costs £975 less than the nearest comparable machine** . . . make sure you know *all* about the Mastiff as soon as you can.

Like to see one working?

Ring HORLEY 4441
(or send us a postcard for full details and specification by return).

The Matbro Mastiff digging in heavy clay



Frontloaders, Overloaders, Two-way loaders, the Merton Range covers the lot

All over the country the Merton Frontloader is proving its worth in heavy work. It's a solid piece of engineering with plenty of thought put into it. The forward driving position gives on-top-of-the-job visibility for close range manoeuvring and cleaning up; new linkage design gives extra height and reach; and 45° bucket crowd plus a full view of the bucket edge means a full load every time. Designed round the job—that's the Frontloader, and you make a wise choice when you go for Merton performance, reliability and ease of maintenance.

A Demonstration is the thing *Let us show you the Merton Frontloader on your own ground, on the job it will have to do.*
When you really get down to choosing —

see the Merton range

MERTON ENGINEERING CO LTD
Faggs Road · Feltham · Middlesex · Feltham 3045

TA3131

YOU WANT SHEETS
TAILOR-MADE TO KEEP LAPS TO A
MINIMUM. WE SUPPLY THEM

Wireweld welded fabric, manufactured by G.K.N. Reinforcements Ltd., is delivered quickly to your sites from our works at

CARDIFF, BIRMINGHAM, WIGAN and GLASGOW

If you want to put steel into concrete and save money get in touch with

G.K.N. Reinforcements Ltd.

(FORMERLY TWISTEEL REINFORCEMENT LTD.)

197 KNIGHTSBRIDGE, LONDON, S.W.7 (KENSINGTON 6311)

MIDDLESBROUGH: *(Middlesbrough 3843)*
SMETHWICK, BIRMINGHAM *(Smethwick 1991)*
GLASGOW: *(Bell 2444)* MANCHESTER: *(Ardwick 1691)*

BRISTOL: *(Bristol 21555)* LEEDS: *(Leeds 27311)*
CARDIFF: *(Cardiff 45220)* LEICESTER: *(Leicester 25114)*
Works: CARDIFF, SMETHWICK, WIGAN & GLASGOW

20-Ton Ruston Transit Crane
ARUP
HIRE
from
ARUPS
● 5-25 Tons capacity ● Jibs up to 120′ with 15′ to 30′ flying jibs
● also all sizes mobile cranes on pneumatics or tracked
GERRARD 2708
5 LINES
15-Ton NCK Lorry Mounted Crane
25-Ton Coles Model 3010
ARUP & ARUP LTD., COLQUHOUN HOUSE, BROADWICK STREET, LONDON, W.1.

IT'S NEW –
EFFICIENT and-
INTERNATIONAL
INTERNATIONAL HARVESTER
B-41-I
MOBILE CRANE
(3½ to 5 ton capacity)
Hydraulic operated jib
60° slewing movement
Send for details to:
SAVILLE
(TRACTORS) LIMITED
Dept B
STRATFORD-ON-AVON
LONDON · CARDIFF
BELFAST
A Company of the LUMLEY SAVILLE ORGANISATION

REPAIR SERVICE

on all makes of

THEODOLITES & LEVELS

PICK-UP AND DELIVERY SERVICE

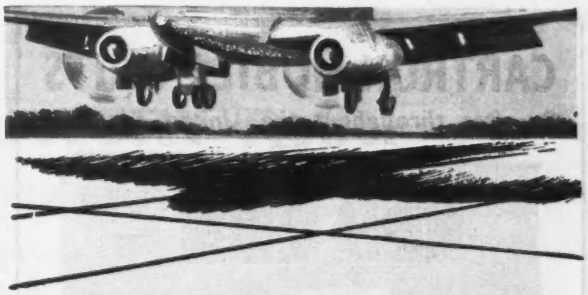
SURVEY & GENERAL INSTRUMENT CO. LTD.

329 HIGH HOLBORN, LONDON, W.C.1.

Telephone: HOLborn 4118 (3 lines)

Agents in the North West:
CHADBURNS (Liverpool) LTD.,
31 Brunswick Street, LIVERPOOL.

Agents for Kern SWISS of Switzerland



EXPANSION JOINTING

for

CONCRETE ROADWAYS

CONCRETE RUNWAYS

VERTICAL JOINTS IN WALLS, BRIDGES, etc.

IN THICKNESSES ¼", ⅜", ½" and ¾"

IN LENGTHS 8' 6"

PERMANITE LIMITED

455 OLD FORD ROAD · LONDON · E.3. *Tel: ADVance 4477 (20 lines)*

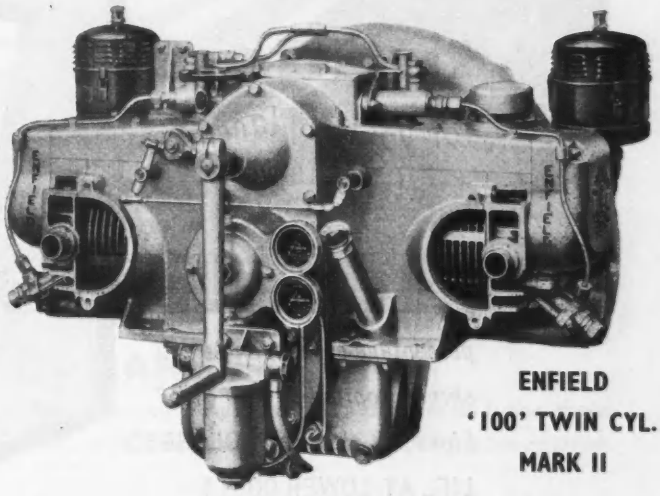
AND NOW **THE MARK II!**

★ 10% increase in power.

★ Even easier starting.

★ Even better fuel consumption.

★ Airflow finning for peak performance under arduous conditions.



ENFIELD
'100' TWIN CYL.
MARK II

19/22 b.h.p. at 2000 r.p.m.

PLEASE SEND FOR FURTHER DETAILS

ENFIELD
Air Cooled Diesel Engines

H.P. FACILITIES AVAILABLE

ENFIELD INDUSTRIAL ENGINES LTD. Dept. C.J. REDDITCH, WORCS.

CARTRUK MOBILE UNITS

On sites throughout the United Kingdom

Interior layouts designed to meet your individual requirements; e.g. Tool Stores, Ablutions, Canteens etc.
Unit Sizes: 22′, 18′, 16′, 12′ and 10′ x 7′6″

CARTRUK LIMITED

"Beehive Mill," Marsland St., Portwood, Stockport.
Write or phone: – STOCKPORT 5227

SURVEYS CLEARANCE · WELDING
CUTTING · CONSTRUCTION
MAINTENANCE

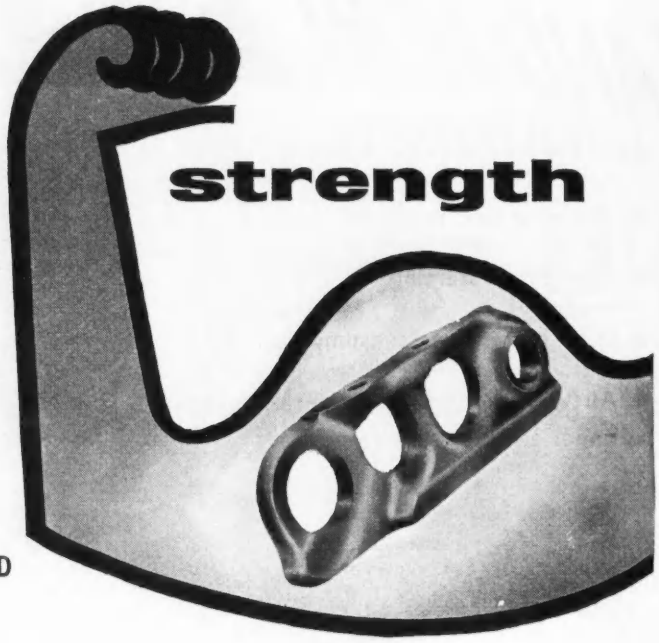
Teams of expert diver engineers with specialised equipment are on hand to operate anywhere in the United Kingdom . . . or the world. Write for full details, or put your problems direct. Diving Equipment, Welding Generators, Compressors and other plant for HIRE.

UNDER WATER WELDERS & REPAIRERS LTD.
ROATH BASIN · CARDIFF

Telephone: 29631-2-3 (After Hours: Gobion (Mon) 200 or Penarth 58131)
London Office: 91 Princedale Road, London, W.11. Telephone : Park 4468

hidden strength

for your replacement caterpillar track



Laboratory and field tests have proved that the increased percentage of manganese and chrome content of 'Star Steel' Links will give you PROLONGED LIFE AT LOWER COST!

STAR STEEL

SOLE U.K. DISTRIBUTORS:
DERBYSHIRE TRACTOR SERVICE LIMITED
BRIMINGTON ROAD NORTH · WHITTINGTON MOOR · CHESTERFIELD
Telephones: CHESTERFIELD 3167/8 & 4235 Grams: "SERTRAC, CHESTERFIELD"

SPARE PARTS, SALES & SERVICE FOR CATERPILLAR-BUILT TRACTORS & ALL OTHER EARTH MOVING EQUIPMENT

GREENS VIBRATORY Roller

8 cwt. roller with a compacting effect of many times its weight.

Utmost safety in operation with finger-tip control.

Immediate accessibility of reversing clutches for adjustment and relining.

Hand-lever start for engine.

Two-speed quick-reverse gearbox.

Easy access to vibrator drive belt for rapid adjustment.

Robust construction—roll carried on continuous axle, giving great strength and rigidity.

GREENS ROLLER RANGE

The Vibratory Roller featured above is the latest addition to the famous range. Traditional models are available from 11 cwt. to 14 tons. Write for specification.

Greens Griffin
Regd. Trade Mark

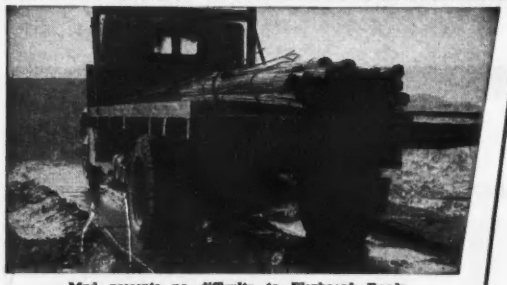
Thomas Green & Son Ltd., Smithfield Ironworks, Leeds 2. *Phone:* Leeds 20357 (6 lines). *Telegrams:* Smithfield, Leeds
New Surrey Works, Southwark Street, London S.E.1 *Phone:* WATerloo 4301. *Telegrams:* New Surrey Works, London

MAIN DEALERS FOR VIBRATORS

Eddison Plant Limited, Belton, Grantham. Lewis & Lewis Ltd, School Road, North Acton London N.W.10
Moss (Cambridge) Ltd., 146 Hills Road, Cambridge. William G. Search, Ltd., Whitehall Road, Leeds 12
William R. Selwood Ltd., Chandler's Ford, nr. Southampton, Hants.

PORTABLE ROADS FOR SALE & HIRE

Cut costs and speed up work on the site



Mud presents no difficulty to Flexboard Roads

- YOU CAN HIRE 100YD. OF ROADWAY BY THE WEEK FOR THE COST OF ONE MAN'S WAGES
- WE CAN PUT A ROAD ON YOUR SITE WITHIN 24 HOURS

Full details from

Sommerfelds LTD. | LONDON OFFICE: 161 VICTORIA ST. S.W.1 TEL: VIC. 1000

WELLINGTON · SHROPSHIRE TEL. 1000

CONTRACTORS' SHOVELS

Any type of Handle Supplied.

★ Made from the best materials available and manufactured by Black Country Craftsmen.

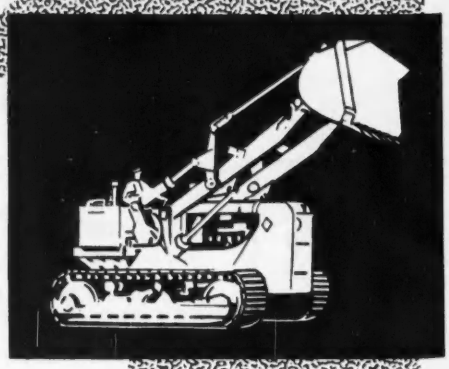
Catalogue and Prices on request.

THE PHOENIX SHOVEL Co. Ltd.

CRADLEY HEATH · STAFFS

BIG Jobs... require BIG Traxcavators

Yes, for less than 50% additional cost, you can get a 300% increase in production by using these large Shovels. Larger machines will help you to complete on time. Hire a CATERPILLAR 977 2¼ cu. yd. Traxcavator from . . .



Phone: LANGHAM 7833-5.

MOBILE HAULAGE CO., LTD.

230 TOTTENHAM COURT ROAD, LONDON, W.1.

Built to take it! Here is a rock hard heavyweight dumper which is suitable for highway operation but has been designed primarily to withstand years of brutal off-the-road pounding. Every load bearing component is built to give maximum strength plus deep down dependability.

All DODGES are tough — but this is the toughest of all DODGES.

DODGE

HEAVY DUTY DUMP TRUCK

MADE IN BRITAIN AND BUILT TO LAST BY
DODGE BROTHERS (BRITAIN) LTD. KEW, SURREY. TELEPHONE: PROSPECT 3456 (12 LINES)

ALL-STAR SPECIFICATION

1. *Maximum G.V.W. 28,000 lb.*
2. *Choice of three diesel power units — 340, 351, 375 cu. in.*
3. *Hydraulically operated clutch, 13 in. and 14 in. diameter according to engine.*
4. *Extra duty five-speed gearbox.*
5. *Reinforced chassis frame 11¼ in. deep.*
6. *Two-speed rear axle with rated capacity of 19,250 lb.*
7. *Dual rate suspension with shock absorbers and rear helpers.*
8. *Air over hydraulic braking system.*
9. *Power assisted steering.*
10. *10.00-20 12 ply tyres on B7.0 three-piece wheels.*

THE GREENHAM GROUP

Selected Items from Stock:—

DUMPERS

15cwt. **Benford,** Petter Diesel, excellent condition. £175

15cwt. **Liner** Roughrider, Petter Diesel, excellent condition. £175

CONCRETE MIXERS

5/3½ **Blaw Knox,** Ruston Petrol, on two pneumatic wheels, excellent condition. £90

7/5 **Benford,** Tilting Drum, Hopperfed. Petter Diesel, overhauled. £195

10/7 **Stothert and Pitt,** Petter Diesel, good working order. £95

10/7 **Stothert and Pitt,** Lister Diesel, very good condition. £195

10/7 **Rex,** Rotary Drum, Hopperfed, water tank, Ruston 1VTH Diesel. Excellent condition. £250

14/10 **Rex,** Rotary Drum, Hopperfed, water tank, Ruston 1VSH Diesel. Reconditioned. Choice of six. £300

14/10 **Rex,** as above but High Discharge. Choice of three. £325

14/10 **Rex,** electric motor, 400/440/3/50. Complete with integral weighgear. £475

21/14 **Stothert and Pitt,** Lister Diesel. Low discharge. Excellent condition. Choice of two. £350

CONCRETE PLANT

14 cu. ft. **Road Machines** Double-bucket Swing Weighbatcher, overhauled and repainted. Choice of four. £165

10-ton **Portasilo,** good condition, repainted. £275

30-ton **Portasilo,** rectangular discharge hopper, good condition, repainted. £375

Allam Poker vibrators electric, c/w flexible drive and Poker head. Very good condition. Choice of two. each £25

Vibrosoil Compactors, J.A.P. Petrol, very good order. each £125

MONO-RAIL EQUIPMENT

We have a large selection of **Mono-Rail** equipment in excellent condition. Power and trailer wagons, straight and curved rails, stands. Supplied in complete sets or as required.

PUMPS

2in. **Alcon,** Petrol Engine, good condition, £25

3in. **Sykes** Petrol, lift and force model. £15

6in. **Sykes** Diesel, centrifugal. £50

3in. hand pump. £2

Vac-Seal centrifugal Pump by **International Combustion, Ltd.** Capable of handling heavy proportion of solids. New 1954, Electric 400/440/3/50. First-class condition. £175

HOISTS

A.C.E. and **B.H.C.** Scaffold Hoists, Petrol Engine, very good condition. each £55

5/7cwt. **Warry** J.A.P. Petrol, two pneumatics. £45

7/10cwt. **Wickham** Static, Petter or Ruston Diesel, complete with masts, first-class order. £125

10cwt. **Wickham** Static, Ruston Diesel, complete with masts. Choice of three machines. Excellent condition. £145

15/20cwt. **B.H.C.** Centre Slung, Petter Diesel, overhauled, complete with Hopper. £295

One 1958 **A.C.E.** 20cwt. Passenger Hoist "Skymaster." Serial No. 15258/23644. Includes eight 18ft. Mast sections and six electrically controlled gates. Fitted 15-man cage. Now erected in London, E.C.2., the hoist can be seen in operation until end of January. £2,500

MISCELLANEOUS

Parmanco horizontal and vertical mobile drill, Series 70585. Ford V8 Petrol. Completely overhauled. **Offers.**

GREENHAM EQUIPMENTS LTD

CLAYTON ROAD, RUISLIP ROAD, GREENFORD, MIDDLESEX

Let's ring **VIKING 3651**

CONTRACT GUARANTEE BONDS—

Ask the AVON

YOUR LARGEST CONTRACT?

A contractor tackling his "biggest ever" job may well need his bank's help to finance it—help more easily given if the bank does not have to issue any bond required. For intelligent understanding of bond problems in such circumstances—Ask the Avon.

AVON INSURANCE CO. LTD.

The Contract Guarantee Specialists

Head Office: Stratford-on-Avon. Phone: 4211 (10 lines)

Branches in all parts of the country.

REEFER JACKETS

Made of very heavy melton, or pure kersey wool, shower-proof, wool lining throughout, ex Naval reconditioned, **EXCELLENT VALUE** each **33/-**

TIMEG LTD.

Dept. PC/7, 102 WARDOUR STREET, LONDON, W.1

Telephone: GERrard 1191-2

friction to brake . . .

friction to *drive*— . . . WITH DURASINT

. . . with DURASINT SINTERED METALLIC FRICTION MATERIALS

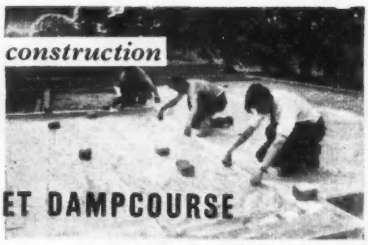
Compact and hard-wearing, Durasint materials offer outstanding friction stability at high operating temperatures—one good reason why Durasint Materials are used so extensively for aircraft brakes and for clutch plates in all classes of heavy duty traction machines.

Enquiries to:

SINTERED PRODUCTS LIMITED *(One of the Sheepbridge Engineering Group)*

Sutton-in-Ashfield, Notts., England. Telephone: Sutton-in-Ashfield 590.

In house-raft construction



specify

BCL BLANKET DAMPCOURSE

Geo. Wimpey & Co. Ltd. use BCL Blanket Dampcourse. Picture shows film in position.

BCL Blanket Dampcourse (0·005″ thick BCL polythene film) is the answer to the problems of moisture penetration into concrete house-rafts. It stops water rising through the raft into the house and, by preventing water-absorption by the concrete, removes the danger of the raft being damaged by frost or sulphate.

BCL Blanket Dampcourse is

—**waterproof**—virtually eliminates moisture-absorption by the concrete;
—**rotproof and chemically inert**—will not break down or lose efficiency;
—**tough and flexible**—will not easily break or tear when being laid;
—**very easy to handle**—the film is light in weight and is simply laid over the fill before the concrete is placed;
—**cheap**—the film costs less than 11d. per sq. yd. delivered to site U.K.

Send today for free illustrated booklet incorporating a report on tests carried out with this material by the Industrial Research Laboratories, City of Birmingham Public Works Dept.

BRITISH CELLOPHANE LTD.
Henrietta House, 9 Henrietta Place, London, W.1.

To: British Cellophane Limited
Henrietta House, 9 Henrietta Place, London, W.1.
Please send me, free and without obligation, your booklet "BCL Blanket Dampcourse" ..... Please tick
Please ask your representative to call ..... as appropriate
NAME .....
ADDRESS .....
CJ7

SENSATIONAL PURCHASE OF M.O.S.'s ENTIRE STOCK OF MODERN

OIL BURNING SPACE HEATERS

(U.S. FORCES PATTERN)

STILL TAX FREE Deposit 30/- & 12 weekly payments of 16/9

★ ECONOMICAL — SAFE — ODOURLESS — SMOKELESS — TERRIFIC HEAT — NOISELESS.
★ COMPACT, BUILT TO LAST.
★ 35,000 B.T.U.s per hour (approx. 12 kW.).
★ HEATS UP TO 12,000 cu. ft.
★ BURNS FROM ¼th pint min. to 3 pints max. PER HOUR (av. running cost = 3½d. per hour).
★ NO SPECIAL INSTALLATION REQUIRED.
★ SIMPLE TO OPERATE, WORKING INSTRUCTIONS SUPPLIED.
★ COMPLETE WITH 5 SECTIONS OF 4in. STOVE PIPE, COWL, 13ft. length of flexible fuel hose and lighters not normally supplied with this type of heater and worth 42/6 alone.

N.B. Runs on any commercial grade Paraffin at from 1/4½ per gall.

★ Will heat that Household Garage in a few minutes and will then run as cheaply as a small heater. Takes up a fraction of the room of a less powerful solid fuel stove. Ex Gov't. Jerricans available at 12/6 plus 3/- carr.

Hundreds already sold to Garages, Workshops, Offices, Halls, Nurserymen and Farmers, Builders, Hostels, Canteens. Especially suitable for Buildings where there is a constant loss of heat.

FANTASTIC OFFER £9 19 6 Plus 10/6 carr. pkg.

WORTH £30

Send for illustrated leaflet or see Demonstration Model at Edgware. *(Open until 3 o'c. on Saturdays)*

Obtainable only from:

D. MULLARD & CO. LTD. Dept. C.J.5, British Railways Goods Depot Station Road, Edgware, Middx. EDG. 5574

*Now is your opportunity to test the **BEST** dumper under the **WORST** conditions*

Thwaites dumpers are designed to give maximum traction under all conditions and we should be pleased to arrange a demonstration of the **best** and **cheapest** dumper under your own site conditions.

Write or phone

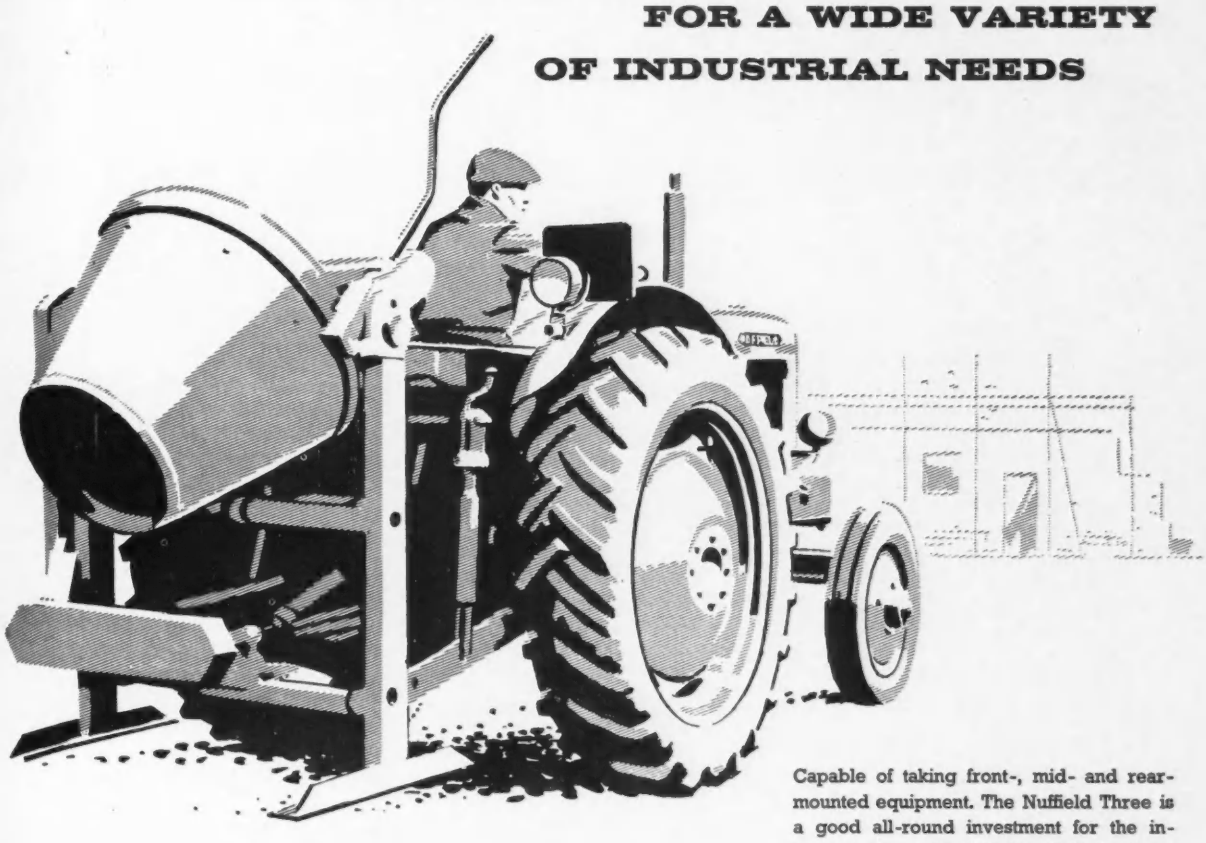
CHAMBERLAIN PLANT LTD

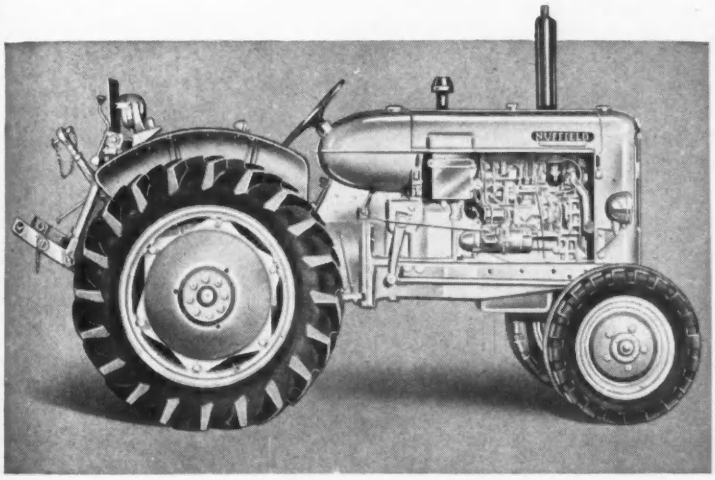
(One of the Chamberlain group of Companies)

CROWN WORKS, SOUTHBURY ROAD, ENFIELD, MIDDLESEX

Telephone HOWARD 4994

A STURDY, ECONOMICAL TRACTOR FOR A WIDE VARIETY OF INDUSTRIAL NEEDS





Capable of taking front-, mid- and rear-mounted equipment. The Nuffield Three is a good all-round investment for the industrial user. The 2.55 litre B.M.C. diesel engine develops 37 b.h.p.—power enough for a variety of jobs on the site and hauling on the road. Five forward gear ratios allow a range of working speeds from ½ m.p.h. to 14 m.p.h. The 'Three' is a first-time starter in all weathers. Unit construction simplifies maintenance and running costs are surprisingly low.

- **Vacuum Brakes** Clayton Dewandre vacuum braking equipment is now available for use with heavy trailers.
- **Independent Wheel Brakes** A completely independent braking system may be fitted in addition to the standard differential-type brakes.
- Optional extras on "Three" and "Four" models.

TWELVE MONTHS' WARRANTY

and backed by B.M.C. Service—
the most comprehensive
in Europe

NUFFIELD UNIVERSAL THREE

MORRIS MOTORS LTD. (AGRICULTURAL DIVISION), COWLEY, OXFORD

Overseas Business: Nuffield Exports Ltd., Oxford and 41-46 Piccadilly, London W.1

FOR EXTRA HEAVY WORK, ASK TO SEE THE NUFFIELD UNIVERSAL FOUR

U173

KINGSTON PLANT HIRE

FELTHAM 4084

KPH

for all Plant Hire

FLEET OWNERS

FLEET OWNERS

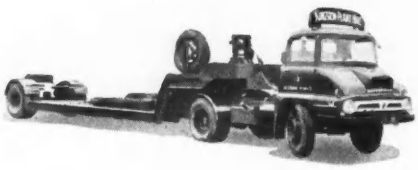
— INCLUDING —

EXCAVATORS
TRAXCAVATORS
BULLDOZERS
SCRAPERS
MOBILE COMPRESSORS
ROAD ROLLERS
VIBRATING ROLLERS
DUMPERS
CONCRETE MIXERS
PUMPS
CRANES
SHOVELS

TRAXCAVATORS —
INCLUDING
DROTT
SKID SHOVEL
WITH THE POPULAR
4 in 1 BUCKET

EXCAVATORS —
ALL EQUIPMENTS
ALL SIZES
INCLUDING
RUSTON 19RB & 10RB
SMITH '21' & SUPER 10

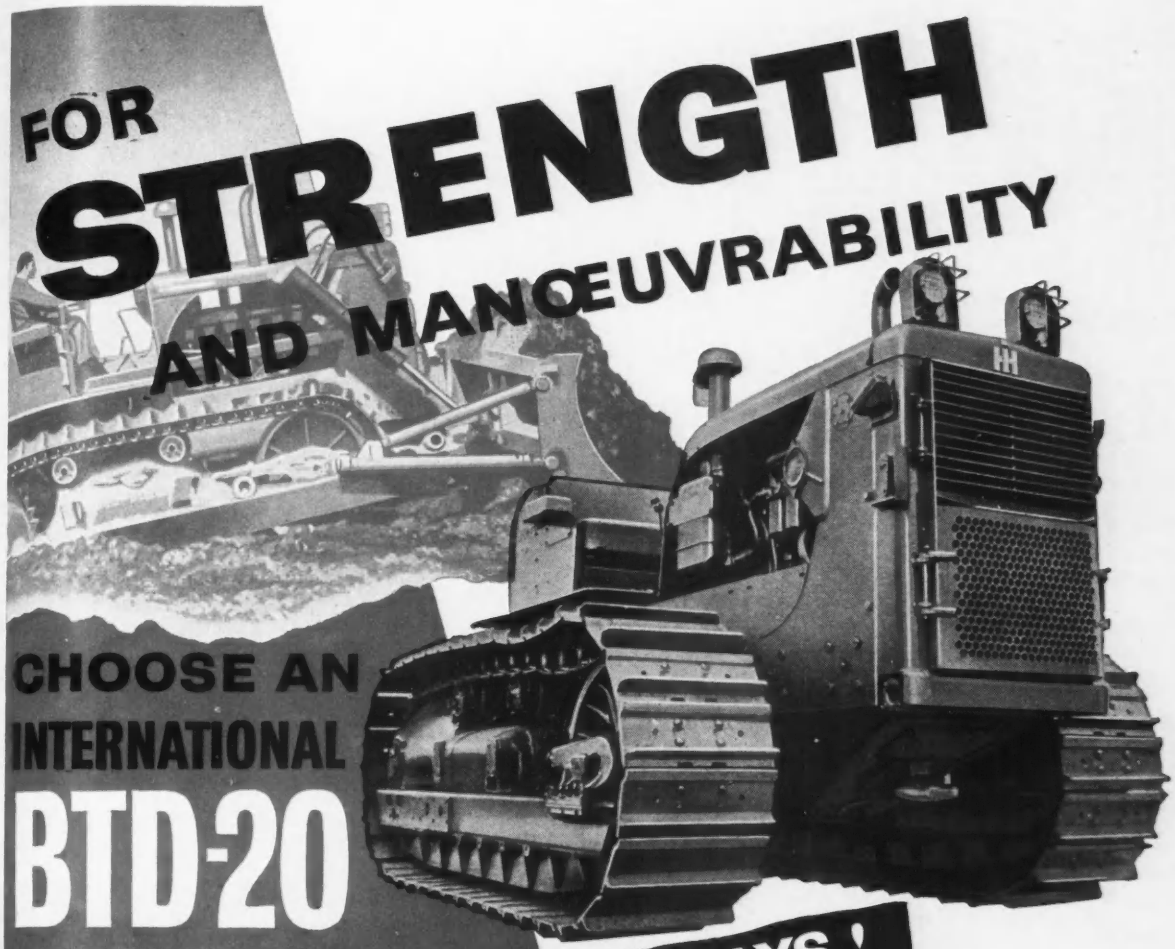
OWN LOW LOADERS



TRANSPORT TO SITE

KINGSTON PLANT HIRE LTD. • Works & Offices: TWICKENHAM RD. • HANWORTH • MIDDLESEX

FOR STRENGTH AND MANŒUVRABILITY



CHOOSE AN INTERNATIONAL BTD-20 CRAWLER

6 SPEEDS—BOTH WAYS!

- Six forward speeds from 1.5 to 7.0 m.p.h. Six reverse speeds from 1.8 to 8.4 m.p.h.
- Rolls Royce diesel engine giving 124 net h.p. at 1,550 r.p.m.
- High capacity 16 in. overcentre twin disc master clutch with woven linings.
- All-welded box construction track frames—the strongest ever in a tractor of this size.
- Completely unhindered access to maintenance points.
- Comfortable, easy driving with perfectly grouped control levers.

The biggest and toughest jobs call for the BTD-20, the great new IH Crawler Tractor, designed specially to combine speed and efficiency to the greatest possible advantage. Powered by a Rolls-Royce six-cylinder diesel engine, it can tackle the heaviest work, and its exceptionally wide range of speeds (six forward and six reverse) enable jobs to be done in much shorter time. All this, and, of course, the inimitable Cripps service, make the BTD-20 stand supreme.

CRIPPS for IH

INTERNATIONAL HARVESTER

Tractors and equipment for digging, loading, grading, winching

Please write for further information to us at any of the addresses given below.

SALES OFFICE: ABBEY BRIDGE, NOTTINGHAM.
Phone: Nottingham 71161 (5 lines) Grams: Criptracnottm Telex.

SERVICE & PARTS: TRIUMPH ROAD, NOTTINGHAM.
Phone: Nottingham 74235 (10 lines) Grams: Criptracnottm Telex.

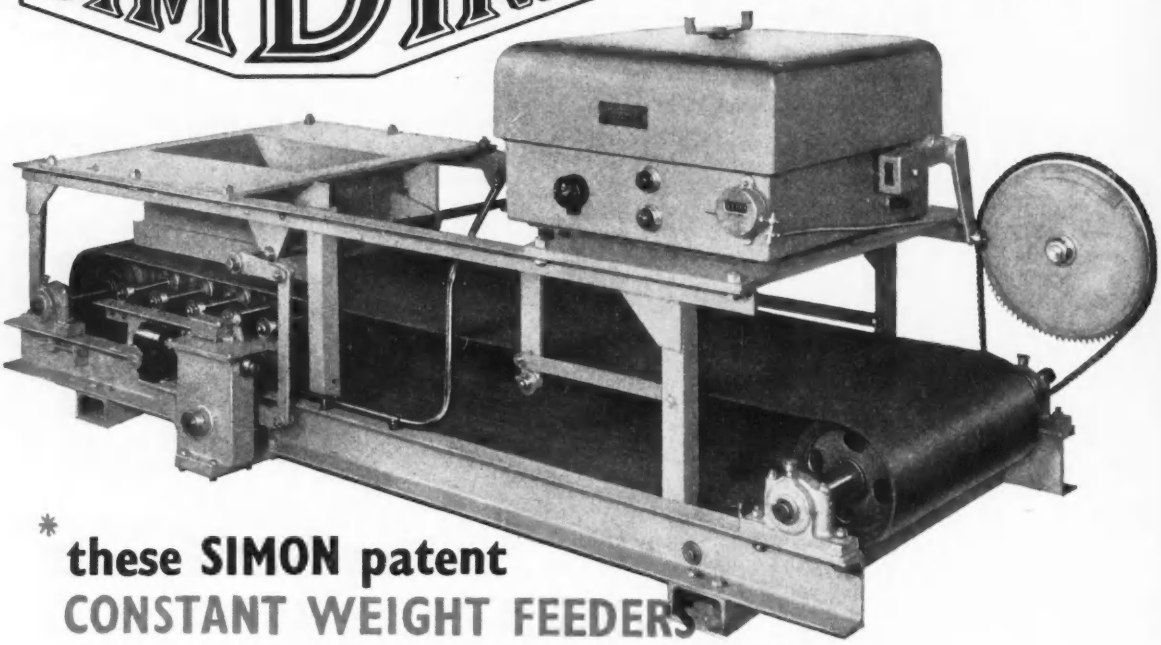
MANCHESTER DEPOT: ORDSALL LANE, SALFORD 5.
Phone: Trafford Park 1658 (3 lines) Grams: Criptrac Man Telex.

NORTH EASTERN DEPOT: SHILDON, CO. DURHAM.
Phone: Shildon 261 (6 lines) Grams: Criptracshildon Telex.

ESTABLISHED 1891—CONTRACTORS TO H.M. GOVERNMENT *You can rely on our service—proved over 60 years.*

SIMDINE

READY MIXED CONCRETE PLANT
CIVIL ENGINEERING PLANT



* these SIMON patent
CONSTANT WEIGHT FEEDERS
are the electro mechanical brains
which are built into the

SIMDINE
CONTINUOUS
BATCHING
and
MIXING PLANT

for the Ready mixed Concrete and Civil Engineering Industries. Designed to deliver a continuous flow of materials at any desired rate per hour irrespective of any alteration in bulk density or changes in the ability of materials to flow

* NO WEIGH LEVERS TO PULL!
* NO WEIGH BUTTONS TO PUSH!
* TOTAL ELIMINATION OF HUMAN ELEMENT IN WEIGHING!

WRITE NOW
FOR FULL DETAILS
OF THIS RANGE OF PLANT
FROM

SIMDINE

CHELSEA STREET
NEW BASFORD NOTTM.
tel. NOTTM. 77731

FULL-O-POWER for long runs

Heavy duty 3-speed constant mesh change on-the-move box gives the dumper faster working cycle with more payloads per day under all conditions.

SNAPPY TURNROUND for short hauls

Finger tip steering on rear wheels and shorter wheel base makes Nimbus much more manoeuvrable, turns easily in 16 ft. road without shunting.

Thwaites

DIESEL DUMPER SPECIALISTS

THWAITES ENGINEERING CO. LTD . CUBBINGTON

LEAMINGTON SPA . Tel: 3089

5920 Cogent

HIRE

YOUR

MICHIGAN

TRACTOR SHOVELS

4-wheel drive, rubber tyred.

MODEL 75A
Bucket capacity 1¼ cu. yds. heavy duty, 2½ cu. yds. light duty. Lifting capacity 8,000 lbs.

MODEL 85A
Bucket capacity 1¾ cu. yds. heavy duty, 2½ cu. yds. light duty. Lifting capacity 9,000 lbs.

MODEL 175A
Bucket capacity 2¾ cu. yds. heavy duty, 5 cu. yds. light duty. Lifting capacity 15,000 lbs.

MODEL 275A
Bucket capacity 4 cu. yds. heavy duty, 6 cu. yds. light duty. Lifting capacity 22,000 lbs.

TRACTOR DOZER

4-wheel drive, rubber tyred.

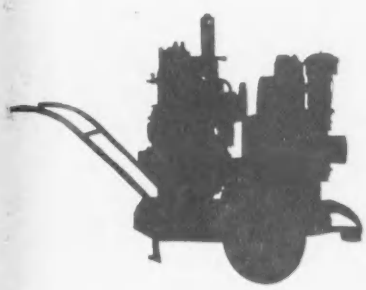
FROM

MODEL 380
Heavy duty blade dimensions 14′ wide, 4′ 4″ high. Working weight 74,150 lbs.

POWER DIGGERS LTD

TELEPHONE: CAMBERLEY 3421.

P.O. BOX NO. 3 · YORKTOWN WORKS · CAMBERLEY · SURREY



this is the **new** Sykes Univac UVS2 2-inch universal pump

The UVS2 is a small pump with a giant performance, and has proved successful on jobs where all other types of pump of a similar size have failed. It offers these advantages:

Over other centrifugal pumps—
No priming water required. Priming many times quicker. Handles thicker slurry and larger solids. Keeps water down to lower level. Works on very long suction lines. Operates small wellpoint systems.

Over diaphragm and similar pump—
Output, size for size, many times greater. Equal air handling capacity. Operates on small flows and smooth slurries. Much superior when water contains stones, sand, wood, etc.

May we demonstrate this pump to you and substantiate our claims?

For sale or hire

The pump that succeeds where others fail

SYKES

univac pumps

HENRY SYKES LIMITED

53b Southwark Street, London, S.E.1
Telephone: HOP 5231 (8 lines) Telegrams: Tripulse, Sedist, London

KEEP THE ROADS
SAFE AND OPEN
by using Atkinson's
GRITTERS

ATKINSON'S AGRICULTURAL APPLIANCES LIMITED Enterprise Works, Clitheroe, Lancs. Tel: Clitheroe 645/6/7

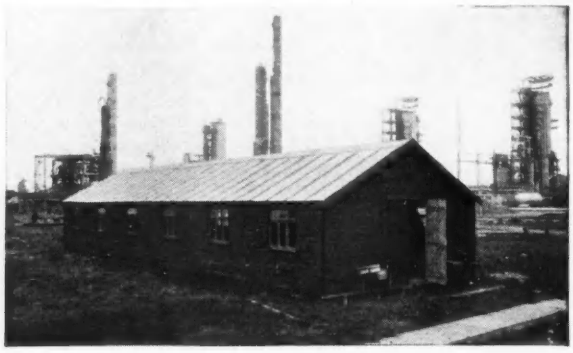
Nothing too LARGE for CLIFTONS

—THE FIRST NAME TO CONSULT
WHEN PLANNING EXPANSION

A Clifton Sectional Building provides the complete answer to your accommodation problems.

- Quickly erected.
- Craftsman Built for **extra long life.**
- Buildings to suit every need.

Write for full details of the Clifton Service.



Illustrated is part of the wide range of sectional buildings erected at the Isle of Grain for Sir Robert McAlpine Ltd.

CONSULT CLIFTONS FOR
- Welfare Centres
- Canteens
- Stores
- Site Offices
- Living Quarters
- Libraries
- Mobile Site Offices, etc., etc.

I. CLIFTON & SONS LTD

H.P. TERMS AVAILABLE IF REQUIRED

13 NEELD PARADE, WEMBLEY, MIDDLESEX. Telephone: WEMbley 2921/3

a time to

ENLARGE

your business

The most modern equipment is needed if a business is to prosper and expand. It is here that Mercantile Credit can be of real assistance. As one of the largest and oldest-established finance houses in the country, Mercantile Credit offers to contractors hire purchase facilities which are second to none in speed, efficiency and friendliness.

Write for full details or telephone our Head Office:

MERCANTILE CREDIT COMPANY LIMITED

Argyll House, 246-250, Regent Street, London, W.1. Telephone: REGent 7222

Member of the Finance Houses Association

There are Mercantile Credit branches throughout the United Kingdom.

Please consult your local telephone directory for your nearest branch.

The Cheapest 12 ft. borer on the market

Yes . . . at £575 *ex works* the **Robot** 12ft. Earth Borer is cheaper than any other and, in our opinion, it's a better machine too! For telegraph poles, lamp standards, post hole digging and short bore piling, the **"Robot"** gets down to the job quickly and with quiet efficiency.

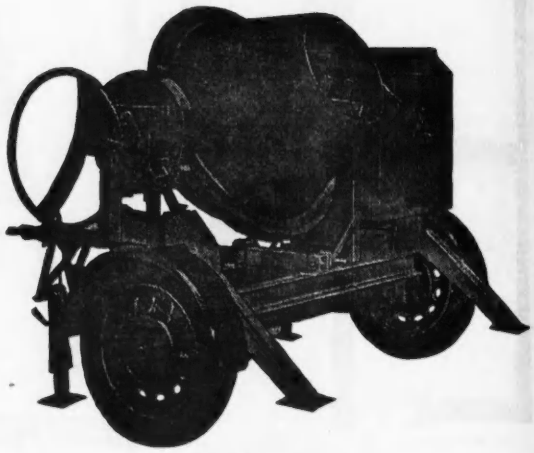
Fully tractor mounted (it can be dismounted in 15 mins.) it is easily folded for transport and extremely mobile. *An 8ft. model is also available, and there is a range 6", 9", 12" & 18" Augers (Special intermediate or slightly larger sizes to order).*

Write or phone for full particulars (Home or Export) to the manufacturers:—

TRANSPLANTERS (ROBOT) LTD.
St. Albans, Herts. Telephone: St. Albans 55224

BY APPOINTMENT TO HER MAJESTY THE QUEEN MANUFACTURERS OF CONCRETE MIXERS AND MIXING MACHINERY

A real time-saver
(and money-saver, too!)



LINER

TRAILEX JUNIOR
3½T MIXER

Petrol or diesel engine driven . . . gives a perfect mix — with an unmixed batch capacity of five cubic feet, and an output of up to twenty batches per hour. Never idle, fast towing from site to site. Non-towing models in 3½T and 5T sizes on steel or pneumatic tyred wheels. Petrol or diesel engine driven.

HIRE PURCHASE TERMS . . . ONLY 10% DEPOSIT

Please send full details of items marked "X"

○ JUNIOR MIXERS ○ CADET MIXER ○ HOPPER FED T.D. MIXERS
○ ROUGHRIDER DUMPER ○ HIPSKIP ○ HYDRAULIC NON-TILT MIXERS
○ SLAB BLOCK & BRICK MACHINE ○ SUMPLOW MIXER ○ POSTAGAV

NAME .....

ADDRESS .....

.....

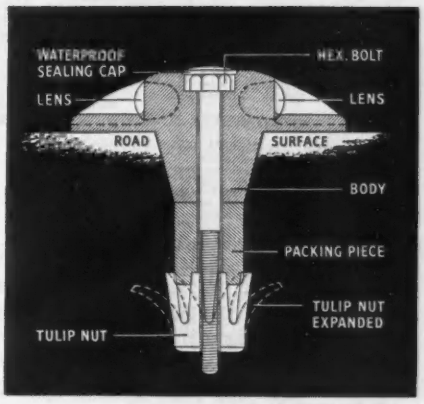
THE LINER CONCRETE MACHINERY CO. LTD.

92 PARK ROAD, GATESHEAD, 8. Phone: 72501. Grams: "Liner, Gateshead"
London Office & Showrooms:
Liner House, Lexden Road, Acton, W.3. Phone: ACOrn 8931
Also at Birmingham, Manchester, Liverpool, Bristol, Leeds, Grantham, Accrington, Torquay, Glasgow, Dundee, Belfast, etc.

Taking the danger out of DARKNESS

... at far less initial cost, and with maximum reflectivity. On the roads 'GYDELITE' Reflector Studs establish a new standard of security for night driving, while installation and maintenance costs are the lowest ever. The Studs are guaranteed for 2 years.

Highway Authorities and others concerned with road safety should write for the 'GYDELITE' Brochure.

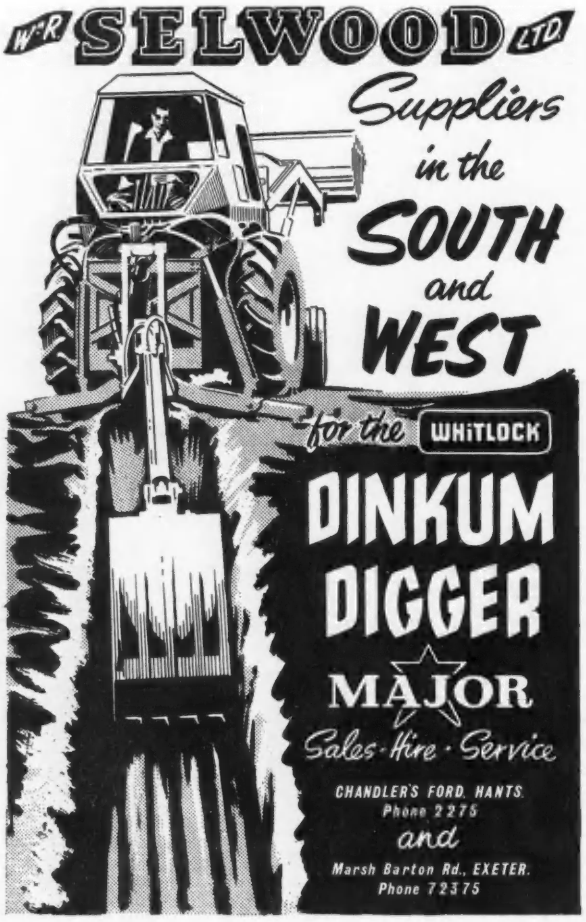


GARRINGTONS

GYDELITE

ROAD REFLECTOR STUDS

GARRINGTONS OF BROMSGROVE, WORCESTERSHIRE, 'PHONE 2621. TELEX 33269.

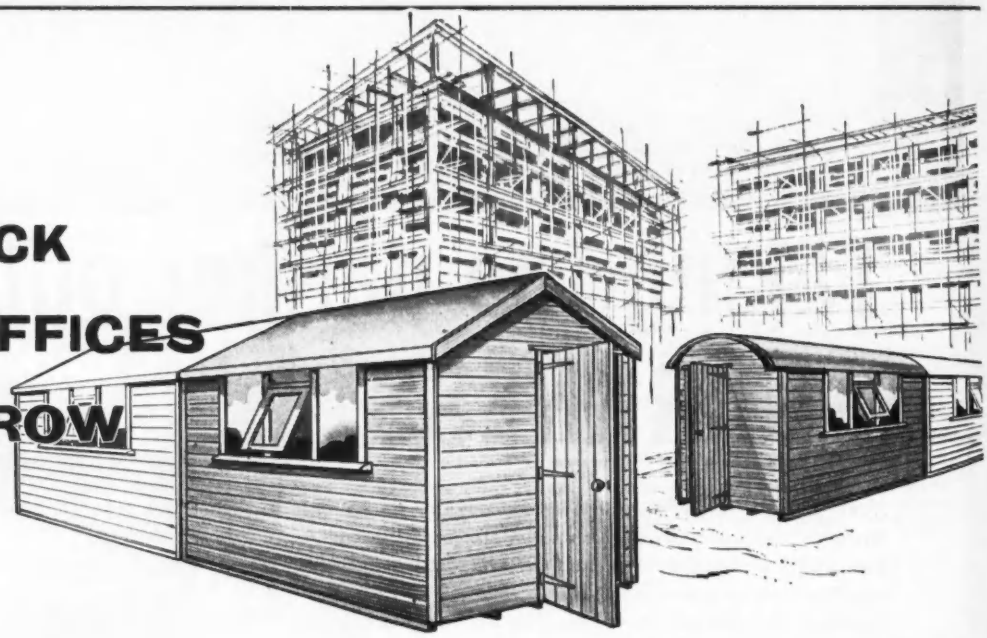


- EXCAVATORS
- TRAXCAVATORS
- DOZERS & SCRAPERS
- COMPRESSORS
- DUMPERS
- CRANES

PLANT HIRE

WILMSLOW
PLANT HIRE COMPANY LTD.
MANCHESTER ROAD
WILMSLOW
CHESHIRE
TEL: WILMSLOW 3421 & 3542

WERNICK
SITE OFFICES
CAN GROW



Sturdy Wernick construction site buildings are roomy, weather-resistant offices that can be erected quickly for immediate occupation. Sections can be added on short notice whenever the job makes more area a necessity, since these low cost structures are specially designed to grow with your needs.
Site buildings are available from your nearest Wernick dealer. His name and address will gladly be supplied if you write to
S. WERNICK AND SONS LIMITED,
DEPT. 83, WORCESTER STREET, WOLVERHAMPTON. TEL: 35028/9.
DEPT. 83, MOLINEUX WORKS, BILLERICAY, ESSEX. TEL: 274.

WERNICKS
for EXTENDABILITY

CONTRACTORS' GUIDE TO AGGREGATES

BEDFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden (2354/5). (See Northants.)
GRAVEL PRODUCTS (HUNTS.), LTD., St. Neots, Hunts. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: St. Neots 308.) Deliveries in Beds., Hunts. and South Cambs.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
WEBB, C., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel.: 3969/4353.) (See Cambridgeshire.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Bedfordshire and Northamptonshire. Regular deliveries anywhere.

BERKSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)
BULL, BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel. 2264.) (See Hampshire.)
COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel.: Ascot 1026/7.) Sand, all grades of washed aggregates, hardcore, clinker, ashes and hoggin.
CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel. Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
GRUNDON, S. (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand.
HAINES, H. (WITNEY), LTD., Oxford Road, Witney (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.
JANES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand, aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)
LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.
POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)
RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.
WRAYSBURY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading (Tel.: Theale 373.)

BRECKNOCKSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

BUCKINGHAMSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.
ASPHALTE CARPETS, LTD., 38 Buckingham Palace Road, London, S.W.1. (Tel.: Tate Gallery 4857 or Gerrards Cross 3496.) Manufacturers of all grades of gravel bitumen macadam, gravel asphalt and cold asphalt at Gerrards Cross.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)
BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.
COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel. 1026/7.) (See Berkshire.)
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DRINKWATER, W. W. (WILLESDEN), LTD., Rush Green, Denham, Bucks. (Tel. Denham 2241/2/3.)
GRUNDON, S. (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand.
HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.
HALL AND CO., LTD., Brentford, Middlesex (Tel.: Isleworth 4455) and Coronation Road, High Wycombe (Tel.: 4360/1), and at Gerrards Cross. Pits at Wraysbury (Middx.) and Iver (Bucks.).
JANES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand, aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)
LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.
MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pit, Little Marlow, Bucks (Tel.: Marlow 379.)
STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Bedfordshire.)

CAMBRIDGESHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

CAMBRIDGESHIRE

DARBY'S SAND AND GRAVEL CO., LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3. All grades of washed sand and gravel, ready-mixed concrete. Pits: Mepal and Chippenham, Cambs.
DICKERSON, M., LTD., Teversham Corner, Newmarket Road, Cambridge. All grades washed sand and gravel, reject stone, hoggin, breeze, clinker, "Terlite" crushed granite, foamed slag, concrete and brick hardcore, ready-mixed concrete—all grades. (Tel.: Cambridge 46071/4.)
FRECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) Washed sand and gravel.
MACLAREN BROS. (KENNETT), LTD., gravel, tarred and bituminous, gravel asphalt, washed sand and gravel, all to B.S. Specifications. Delivered to any site. Station Rd., Kennett, Cambs. (Tel.: Kentford 333/4.)
NORTH ROAD GRAVEL WORKS, LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) All grades washed sand and gravel, ready-mixed concrete and spun-concrete pipes. Pit: Wimblington.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
WEBB, C., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel.: Cambridge 3969 and 4353.) Supplier, at keenest rates, of "Finest Quality Only" all grades washed sand and gravel, reject stone, hoggin, clinker, ashes, brick rubble, pitching, hardcore and granite chippings. All to B.S. Specifications. Delivered to any site in East Anglia.
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

CARDIGANSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

CHESHIRE

BUCKTON QUARRY, Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.
CASTLETON SAND AND GRAVEL QUARRIES, LTD., Pennant End Quarry, Whaley Bridge. (Tel. Whaley Bridge 139.) Washed sand and gravel.
CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.
CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone, dry and coated, to B.S.S. Inquiries to registered office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)
CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.
DUNNING AND SON, LTD. (See Shropshire.)
ELLESMERE SAND AND GRAVEL CO., LTD., Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details see Shropshire.)
HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)
HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)
HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)
PENMAENMAWR AND WELSH GRANITE CO., LTD., 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day; immediate delivery ex stock.
TERN HILL SAND AND GRAVEL CO., LTD., Aimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)
TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.
WILLIAMS, C. F., Bishop Street Sand Quarry, Turncroft Lane, Stockport. (Tel.: Stockport 7096.) Building and concrete sand. Bulk sand and gravel filling a speciality.

CORNWALL

PENTEWAN DOCK AND CONCRETE CO., LTD., Pentewan Works, near St. Austell. (Tel.: Mevagissey 3335/6.) Gwithian Works, near Hayle. Pure silica gravel and grit, concreting, building, plastering and asphalting sands, elvan and granite aggregates, all sizes.

CUMBERLAND

BROOMBYS, LTD., Sandside, Milnthorpe (Tel.: 3251/2), Westmorland. (See Westmorland.)
ESK MANUFACTURING CO., LTD., Dalston Road, Carlisle, Cumberland. (Tel.: Carlisle 2-4941.) All grades washed, crushed gravel and concreting sand to B.S. Specification. Precast concrete products and partition blocks. Sand lime coloured facing and common bricks. Ex works or delivered.

DENBIGHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

DERBYSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.
BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bars, Chesterfield. (Tel. Chesterfield 7130.) Red shale, black ashes, graded clinker, filter media, stone slag, sand, gravel and hoggin fining. Bulk quantity supplies.
HILTON GRAVEL, LTD., Hilton, Derby. (Tel.: Etwall 422.) Also at Mercaston (Tel.: Brailsford 316.) And at Willington. (Tel.: Repton 3215.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

DERBYSHIRE

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)
SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) Limestone and granite, dry or coated gravel and sand; kerbs, slabs, blocks, posts, reconstructed and natural stone; lime and ground limestone. Lightweight aggregates, ashes, red shale.

DEVONSHIRE

PLYMPTON TRADING CO., LTD., Marsh Mills, Plympton, Plymouth. (Tel.: Plympton 2361.) Washed and graded sands for all purposes. Special sands to B.S.S. Precast concrete.

DORSET

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials, limestone for all purposes and to all gradings. Portland stone aggregates and Portland capstone aggregates for reconstructed stone. By road and sea.
GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)
HALL AND CO., LTD., 8 Commercial Road, Parkstone. (Tel.: 5379.)
MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

DURHAM

BRAITHWAITE, A., AND CO., LTD., Knaresborough, Yorks. Quarry at Catterick. (Tel.: Old Catt. 157.) (For details see Yorkshire.)

ESSEX

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.
BAKER, F. AND E., LTD., 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore ashes and bricks.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)
BENT-MARSHALL (LEYTON), LTD., 665-667 High Road, Leyton, E.10. (Tel.: Leytonstone 4047/8.) Sand, ballast, brick and concrete hardcore delivered all areas.
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
FERRIS PITS, LTD., The Limes Garage, Fenceplece Road, Barkingside, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered, also hardcore and ashes.
HALL AND CO., LTD., Manor Road, Romford. (Tel.: Romford 42321.) Pits at Aveley, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sand.
HUNNABLE, F. A., AND SON, LTD., Rayne Road, Braintree, Essex. (Tel.: Braintree 151 and 1351.) Graded washed stone, ¼in. to rejects; washed concreting sand and washed soft building sand. Classified sand for asphalt. Pits at Braintree, Bocking, Beasley End, Hedingham and Alphamstone.
LEIGH BUILDING SUPPLY CO., LTD., Head Office 956 London Road, Leigh-on-Sea, Essex. (Tel.: 78264—5 lines.) All grades washed materials building sand, hardcore, ashes, bricks, granite.
PETERS AND BARHAM, LTD., 309 South Street, Romford. (Tel.: Romford 44141—7 lines.) Washed and crushed gravel, all sizes; sand. Pits at Ashelham, Chignall St. James, Dagenham, Great Waltham North Ockendon, Roxwell, West Thurrock.
READ, P. T., LTD., Fordlands Gravel Pit, Fordland Crescent, Dagenham. (Tel.: Hainault 6111.) All sands, ballast and shingles supplied and delivered also ready-mixed concrete.
READ, P. T., LTD., Fairlop Airfield, Forest Road Ilford. (Tel.: Hainault 6111/2/3.) High-grade sands ballast and shingles supplied and delivered; also ready-mixed concrete.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
STANWAY CONTRACTS, LTD., Upper Edwards Hall Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) Washed and graded aggregates. Local Office and pits: Tillingham 287
WIVENHOE SAND, STONE AND GRAVEL CO. LTD., Wivenhoe, near Colchester, Essex. (Tel. Wivenhoe 231.) High-quality washed aggregates to all grades.

GLOUCESTERSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.
BENGRY AND SONS, LTD., Longmoor, Kingsland Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
COKE, T. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc. etc.
CROMHALL QUARRIES, LTD., Cromhall, Wottonunder-Edge, Glos. (Tel.: Falfield 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.
GRIFFITHS, A., AND SONS, Churchdown, Gloucester Pit, quarry and dredger owners. All grades and types aggregate materials. (Tel.: Churchdown 3135 & 2210.)

Rates for insertion in this GUIDE will be forwarded on application.

CONTRACTORS' GUIDE TO AGGREGATES

GLOUCESTERSHIRE

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concreting, plastering and building sand

POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

TAYMAC, LTD., Wootton Bassett, Swindon. (Tel.: Wootton Bassett 391—5 lines.) (See Wiltshire.)

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: Coleford 3158/9.) Tarred and bituminous limestone macadams, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

HAMPSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel. 2264.) Concreting aggregates (reconstituted, pit-mixed, weighbatched to meet any specification) also ballast, hoggin, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Sway and Totton.

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates kerbs setts (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Baltic Wharf, Marine Parade, Southampton (Tel.: Southampton 21234), and at Portsmouth. Pits at Ringwood, Highbridge and Totton. Gravel aggregate, concreting, plastering and building sand.

HASKINS, G., AND SONS, Queen Street, Emsworth. For washed sands and graded aggregates, path and road gravels, hoggin, clinker, ashes. (Tel.: Emsworth 2693.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

NEW MILTON SAND AND BALLAST CO., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.

PRIVETT, W. G., AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.

RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

WRAYSBURY SAND AND GRAVEL CO., LTD., Station Rd., Theale, Reading, Berks. (Tel.: Theale 373.)

WESSEX SAND AND GRAVEL CO., 126 Hillside Ave., Southampton. (Tel.: 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggin, building sand, etc.

HEREFORDSHIRE

SENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metalling, pitching stone, hardcore and coated macadam.

DINMORE GRAVEL AND STONE CO., LTD., 5A King Street, Hereford. (Tel.: Hereford 5523.) Suppliers of all grades of concrete aggregates, sand, pitching stone and hardcore.

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tarred and bituminous macadam, roadstone, chippings and concrete aggregates, etc.

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 11.) Granite and limestone aggregates, coated macadam, concrete products.

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddesdon 2456.) Producers and distributors of all grades of washed aggregates.

HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage (Tel.: 775), and at Hatfield. Gravel aggregates, concreting, plastering and building sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge (Tel. 3969/4353.) (See Cambridgeshire.)

WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead. (Tel.: Berkhamsted 1208/9.) Pits at Watford, Leighton Buzzard, Heath and Reach, and Bedford.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden (2354/5). (See Northants.)

GRAVEL PRODUCTS (HUNTS.), LTD., St. Neots, Hunts. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: St. Neots 308.) Deliveries in Beds., Hunts. and South Cambs.

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes silica clay and sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel. 3969/4353.) (See Cambridgeshire.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Bedfordshire.)

KENT

BRASTED SAND PITS, Brasted, Kent (Tel. 586.) London office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes etc.

BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330). Sand, ballast, shingle, hardcore, clinker, breeze blocks, etc.

CLUBB, J., LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.

DIAMOND TREAD CO. (1938), LTD., Dittos Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarryowners; tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines.)

DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarryowners; tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Dittos Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W Malling 3444.)

HALL AND CO., LTD., Canning Street, Maidstone (Tel.: Maidstone 510051), and at Folkestone and Hayes. Pits at Lunsford, near Larkfield. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Station Road, Paddock Wood Kent (Tel 184.) (See Sussex.)

TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tarred, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

BUCKTON QUARRY. Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; decking stone.

CROFT GRANITE BRICK AND CONCRETE CO., LTD., West Bank, Widnes. (Tel.: 2656.) "Kubitized" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatite" Wet Mix, filter media, concrete products.

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day

DUNNING AND SON, LTD. (See Shropshire.)

HARTLEY, JOHN W., LTD., Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all constructional purposes.

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3 (Tel.: Blackfriars 2277/8.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.
Liverpool and Preston Depots:
Office: 7 Picton Road, Liverpool, 15.
(Tel.: Sefton Park 7261.)
Manchester Depot:
Office: Cornbrook Road, Manchester, 15.
(Tel.: Trafford Park 3830.)

ROUND-O QUARRIES, LTD., Helsby Street, Warrington. (Tel.: 35451—4 lines.) Building and concrete sand and shale.

TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Local Office and pits, Chorley 3923.

WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex-stock.

X.L. GRANITE (INGLETON), LTD., Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London Office—Norwood Hill 115.) Best Leicestershire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt road/rail delivery.

BRUNTINGTHORPE GRAVELS, LTD., Gilmorton, near Rugby. (Tel.: Lutterworth 46.) All sizes gravel aggregate, building and concrete sand to B.S.S., scientifically balanced ballast.

CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 561/2/3.) Granite aggregates to B.S.S. All sizes. Tarred and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.

CROFT GRANITE, BRICK AND CONCRETE CO., LTD., Croft, near Leicester. (Tel.: Narborough 2261—4 lines.) "Kubitized" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatite" Wet Mix, filter media, concrete products.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester. (Tel.: 56682.) Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)

HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MOUNTSORREL GRANITE CO., LTD., 21 New Walk, Leicester. (Tel.: 56682.) Quarries at Mountsorrel, near Loughborough. Main pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)

LEICESTERSHIRE

WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Northamptonshire.)

WREAKE VALLEY GRAVELS, LTD., Asfordby, Melton Mowbray. (Tel.: Pits—Rotherby 23 or head office—Asfordby 262.) All grades washed aggregates and sand.

LINCOLNSHIRE

BULLIMORES SAND AND GRAVEL, LTD., South Witham, Grantham. (Tel.: Thistleton 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.

BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bars, Chesterfield. (Tel. 7130.) (For details, see Derbyshire.)

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex-quarries or delivered.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

EAST MIDLANDS BUILDERS SUPPLY CO., 21 Castledyke West, Barton-on-Humber, Lincs. (Tel. 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.

GIBBONS, F. B., AND SONS, LTD., Registered Office: Welby House, Market Deeping, near Peterborough. (Tel.: Market Deeping 3321/2383.) Pits at Langtoft, near Peterborough. (Tel.: Market Deeping 2216.) All grades washed sand and aggregates.

HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 8741.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone. (See also Northamptonshire.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For 'Supercrete' ready mixed concrete, 'phone Market Deeping 3132.

TRENTFORD GRAVELS, LTD., Head Office: Deansgrove, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

COX, H., AND SONS, LTD.,
33 Southampton Way,
Camberwell, S.E.5.
(Tel.: Rodney 2215—3 lines.)

CROFT GRANITE, BRICK AND CONCRETE CO., LTD., 128-136 High Street, Edgware, Middlesex. (Tel.: Edgware 0076/7 and 1246.) "Kubitized" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatite" Wet Mix, filter media, concrete products.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMpstead 8044-8.) Granite, limestone or slag, coated or dry, all sizes and pitching, granite kerb and setts, felspar quartz and other minerals by road or rail, or ex-London stock.

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel. Portland 2207/8.) (For details see Dorset.)

DRINKWATER, W. W. (WILLESDEN), LTD., Dudden Hill Lane, Willesden, N.W.10. (Tel.: GLAdstone 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.

KEEN, W. J., AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballasts, shingle and hardcore supplied.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064). 55A Porchester Terrace North, Paddington, W.2.

READ, P. T., LTD., Downs Works, Amhurst Terrace, Hackney, E.8. (Tel.: Clissold 6071/2.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)

ROADS RECONSTRUCTION (1934), LTD., Stockley Lane, West Drayton, Middlesex. (Tel.: West Drayton 3041.) All sizes broken limestone, dry and coated to British Standards.

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

MIDDLESEX

CROSS, GEO. C., AND CO., LTD., Ironbridge, Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Sand, balast, shingle, hardcore, ashes, etc

DRINKWATER, W. W. (WILLESDEN), LTD., Staines Rd., Hounslow Hth., Middx. (Tel.: Hounslow 6222/3.)

GRUNDON, S., 79 Harlington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at Ashford and Brentford. Pit at Bedfont, near Feltham. Gravel aggregates, concreting, plastering and building sand.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064). 55A Porchester Terrace North, Paddington, W.2.

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

THAMES SAND AND GRAVEL CO., LTD., Fordbridge Road, Shepperton. (Tel.: Walton-on-Thames 23616.) Gravel aggregates, concreting, plastering and building sand.

WRAYSBURY SAND AND GRAVEL CO., LTD., Pits at Wraysbury. (Tel.: Wraysbury 164.) Gravel aggregates, concreting, plastering and building sand.

CONTRACTORS' GUIDE TO AGGREGATES

MID-WALES

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

ELLESMERE SAND AND GRAVEL CO., LTD., Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details, see Shropshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.:: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

MONMOUTHSHIRE

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032) and Phoenix Works, Cardiff (Rhiwbina 2360) for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.

MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 38 Chepstow Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metalling, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

MONTGOMERYSHIRE

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely, Cambs. (Tel.: Sutton 391/3.) Washed sand and gravel. Pit: Feltwell.

JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington St. Clement 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 332434.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.

BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Cogenhoe 219). London office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

BRAYBROOK, E. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S.S., Building sand, hardcore.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone, roadstone, hardcore, broken stone, ashes, sand, gravel and hoggin. Immediate delivery throughout Northamptonshire.

FERRERS AND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel. Market Deeping 3321/2383.) (See Lincolnshire for details.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

LANE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Portly Ford. (Tel.: Welford 256.)

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

NORTH WALES

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Yale 43.) Hard, broken limestone, dry and coated to B.S.S. Inquiries to Registered Office — Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

ELLESMERE SAND AND GRAVEL CO., LTD., Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details, see Shropshire.)

ENSTON BROS., Llwyn Isaf Quarry, Clynnog Fawr, Caernarvon. (Tel.: Clynnog Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Tel.: Llanrwst 38.)

PENMAENMAWR AND WELSH GRANITE CO., LTD. Quarries at Penmaenmawr (Tel. 2256/8), and at Trevor (Tel.: Clynnogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.

RUTHIN AND DENBIGH TARMACADAM CO., LTD., Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., 23 Colmore Row, Birmingham. (Tel.: Central 7408—4 lines), and Lunt Bros., Ltd., Stourbridge (Tel. 5201—6 lines).

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

NOTTINGHAMSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bars, Chesterfield. (Tel. 7130.) (For details, see Derbyshire.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel; could be collected ex-quarry or delivered.

GUNTHORPE GRAVELS (1958), LTD. (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme, Pierrepont Colwick, Bleasby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.

NEWARK GRAVEL AND CONCRETE CO., LTD., Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) (For details see Derbyshire.)

OXFORDSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore etc.

CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel. Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts (See London.)

DIX, G. H., AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 234.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

GRUNDON, S., (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H., (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

WRAYSBURY SAND AND GRAVEL CO., LTD., Station Rd., Theale, Reading, Berks. (Tel.: Theale 373.)

RADNORSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

RUTLAND

BULLIMORES SAND AND GRAVEL, LTD., South Witham, Grantham, Lincs. (Tel.: Thistleton 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop.: Andrew's Garage), Ketton, nr. Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

RUTLAND

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SCOTLAND

KEIR AND CAWDER, LTD., Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

SHROPSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.

ELLESMERE SAND AND GRAVEL CO., LTD., Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) All grades of washed gravel, aggregates, concreting and building sands.

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (Tel.: Bayston Hill 351.) High quality roadstone, chippings, concrete aggregates, hardcore and coated macadam. Large tonnages always available.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kington (Tel. 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

SOMERSET

ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Nunney 351.) All sizes block, broken and aggregates. Tarred and bituminous macadam. Ex-quarry or delivered.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel. 63001.) Gravel aggregates, concreting, plastering and building sand.

ROADS RECONSTRUCTION (1934), LTD., Stoneleigh House, Frome. (Tel.: Frome 2361.) All sizes broken limestone, dry and coated, to British Standards. Precast concrete products.

WAINWRIGHT, JOHN, AND CO., LTD., Shepton Mallet. (Tel.: Shepton Mallet 2366/7.) All sizes basalt, coated basalt, concrete aggregates. Filtermedia, building blocks and slabs.

SOUTH SCOTLAND

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

SOUTH WALES

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032) and Phoenix Works, Cardiff (Rhiwbina 2360) for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.

PENMAENMAWR AND WELSH GRANITE CO., LTD., 18 Quay Street, Cardiff. (Tel. 20646/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates from Ewenny Quarry, Bridgend. (Tel. 1086/7.) Coated stone also available.

SESSIONS AND SONS, LTD., West Dock, Cardiff. Producers of coarse and fine aggregate, dredged and graded to British Standards. Branches Newport and Swansea. (Also Gloucester and Hereford.)

SOUTH WALES SAND AND GRAVEL CO., LTD., Head Office: P.O. Box 8, Beaufort Buildings, Swansea (Tel.: Swansea 53071—5 lines.) Sand and gravel merchants, builders' merchants. Penmaenmawr Quarry owners, slag hardcore, ashes, filling, graded clinker filter media. Depots: Cardiff, Newport, Barry, Port Talbot, Britons Ferry, Swansea, Llanelly.

STAFFORDSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output, reliable deliveries.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 1,000 tons per day.

DUNNING AND SON, LTD., Wood End Gravel Pits, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S.S. High-quality roadstone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

HILTON GRAVEL, LTD., Cheadle, Staffs. (Tel.: Tean 241.) Also at Longton, Stoke-on-Trent (Tel.: Longton 311961) and Stretton, Burton-on-Trent (Tel.: Burton 6061)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)

RUGELEY GRAVEL CO., LTD., Rugeley Quarries, Rugeley, Staffs. (Tel.: Rugeley 251/2.) Entirely modern plant. Sand classifiers. Finest aggregates to B.S.S. Large output.

CONTRACTORS' GUIDE TO AGGREGATES

STAFFORDSHIRE

SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) (For details see Derbyshire.)

SHIRE OAK GRAVELS, LTD., Lichfield Road, Walsall Wood, Staffs. Washed crushed gravel and washed sand. (Tel.: Brownhills 3253.)

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) Pit sand, concrete sand, and all grades of washed crushed gravel. Hardcore, clinkers, ashes and hoggin.

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

SUFFOLK

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand, also hoggin.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DARBYS' SAND AND GRAVEL CO., LTD. Pit at Chippenham, Cambs. (See Cambs.)

DICKERSON, M., LTD., Teversham Corner, Newmarket Road, Cambridge. (Tel.: Cam. 56973/4.) (See Cambs.)

FRECKENHAM GRAVEL CO., LTD. Pit at Freckenham. (See Cambs.)

HALL AND CO., LTD., West End Road, Ipswich. (Tel.: Ipswich 55593/4.) Pits at Kesgrave and Homersfield, near Harleston. Gravel aggregates, concreting, plastering and building sand.

MACLAREN BROS. (KENNETT), LTD., Station Road Kennett, Cambs. (Tel.: Kentford 333/4.) (See Cambs.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) (See Norfolk.)

WEBB, G., CAMBRIDGE, 35 Magrath Avenue Cambridge. (Tel. 3969/4353.) (See Cambs.)

SURREY

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside Ascot, Berks. (Tel. 1026/7). (See Berkshire.)

EASTWOOD SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Longside Sand and Ballast Pit, Thorpe, near Egham. (Tel.: Egham 3121.) Producers and distributors of all grades of washed aggregates

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Victoria Wharf, Croydon. (Tel.: Croydon 4444.) Other main depots at Coulsdon, Epsom, Mitcham, Oxted, Purley, Redhill, Tadworth and Woking. Pits at Send and Reigate. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Kingston Road, Leatherhead, Surrey (Tel. 3497). (See Sussex.)

JANES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand, aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

MARCO (AGGREGATES), LTD. Pit: Norlands Lane, Thorpe, near Egham. (Tel.: Chertsey 3401.) Producers and distributors of high-grade washed sand, shingle, ballast, etc.

MARCO (CROYDON), LTD., Hampton Road, West Croydon. (Tel.: THOrnton Heath 4236/7/8.) All building and road aggregates.

WELLS, A. L., AND SON, LTD., Builders' Merchants, Garlands Road, Leatherhead. (Tel.: 3018/9.) Sand aggregates, hardcore, ashes, cement. Clinker block manufacturers

WINTON, WM. R., LTD., Send, Woking. (Tel.: Ripley 2454/5.) All grades sand, shingle, ballast, hoggin and ashes. Clinker block manufacturers.

SUSSEX

AVANN, F., Cavendish Avenue, Eastbourne. (Tel.: 4969/70.) Washed and graded ballast, sand, bricks, breeze and concrete blocks, hardcore, clinker, tarmac, etc., supplied.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., 16 Chapel Road, Worthing. (Tel.: Worthing 7840.) Other main depots at Bexhill, Bognor, Crowborough, East Grinstead, Eastbourne, Horsham, Hove and Seaford. Pits at Washington, Crumbles, near Eastbourne, Chichester, Rye Harbour, Midhurst, Shoreham and Portslade. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., West Station Goods Yard, Bexhill (Tel. 61); Cavendish Place, Eastbourne (Tel. 3800); Dominion Road, Worthing (Tel. 8822); Whitbread Lane, Northiam (Tel. 2211); Station Goods Yard, Haywards Heath (Tel. 1750); Crawley Road, Horsham (Tel. 3366); The Hornet, Chichester (Tel. 4181). All grades aggregates, hardcore, clinker, ashes, etc.

WRIGHT, C., AND SONS (B'TON), LTD., 19 Bristol Gardens, Brighton, 7. (Tel.: Brighton 63357 and 62406.) All-in ballast, washed and crushed shingle, sand, ashes, hardcore, chalk, bricks, etc.

WARWICKSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

BRUNTINGTHORPE GRAVELS, LTD., Gilmorton, near Rugby. (Tel.: Lutterworth 46.) All sizes gravel aggregates, building and concrete sand to B.S.S., scientifically balanced ballast

COOPER, J. A. (TRANSPORT), LTD., Hurley, near Atherstone, Warwicks. (Tel.: Hurley 225.) Shale pit at Newdigate Colliery, Bedworth, near Coventry. Shale, hardcore and clinker ash as dug or graded. Delivered to site or loaded into customers' own vehicles by arrangement.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

HALL AND CO., LTD., 188 Lichfield Road, Four Oaks, Sutton Coldfield. (Tel.: Four Oaks 356.) Gravel aggregates, concreting, plastering and building sand.

HARRABIN, W. H., AND SONS, LTD., Navigation Bridge, Stoney Stanton Road, Coventry. (Tel.: 89439.) All materials, granites, hardcore, kerbs and flags, gravels, sands, ashes, setts, etc.

JUDKINS, LTD., Granite Quarries, Tuttle Hill, Nuneaton. (Tel.: Nuneaton 3411—10 lines.) All sizes washed granite aggregate, tarred and bituminous macadam. Slab mix a speciality

WELFORD GRAVELS, LTD. Head Office: Goldington, Bedford (Tel. 4587/8/9.) (See Bedfordshire and Northamptonshire.)

YEOMANS, G. R., LTD., Oxford Road, Ryton-on-Dunsmore, near Coventry. (Tel.: Coventry, Tollbar 2376/7/8.) Shale, hardcore—as dug and graded. Loaded into vehicles or delivered to site.

WESTMORLAND

BROOMBYS, LTD., Sandside, Milnthorpe, Westmorland. (Tel.: Milnthorpe 3251/2.) All grades washed crushed gravel, sand, limestone, granite chippings, pitching, tarmacadam, rockery stone, etc

ESK MANUFACTURING CO., LTD., Carlisle (Tel.: Carlisle 2-4941). For details, see Cumberland.

WILTSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)

COKE, T. P. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: 4717/4874.) (See Glos.)

WILTSHIRE

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin path gravel.

POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

TAYMAC, LTD., Wootton Bassett. (Tel.: 391—5 lines.) Pits at Lacock (Tel.: 304), Wilts.; Fairford and Poulton Glos. (Tel.: Fairford 365/6.) Washed crushed and graded aggregates. Washed and screened building sand. Graded clinker media.

WORCESTERSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

DINMORE GRAVEL AND STONE CO., LTD., 5A King Street, Hereford. (Tel.: Hereford 5523.) Suppliers of all grades of concrete aggregates, sand, pitching stone and hardcore.

DUNNING AND SON, LTD. (See Shropshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 11.) (See Herefordshire.)

YORKSHIRE

BRAITHWAITE, A., AND CO., LTD., Conyngham Hall, Knaresborough. (Tel.: Knaresborough 2286.) Quarries at Knaresborough (Tel.: Knares. 2286) and Catterick (Tel.: Old Catt. 157). Washed, crushed and graded concrete aggregates to B.S. Specification. Output 2,000 tons daily. Ready mixed mortar and ready mixed concrete also available.

BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bars, Chesterfield (Tel.: 7130.) (For details, see Derbyshire.)

DENNIFF, ALAN S., LTD., Kiveton Park, near Sheffield. (Tel.: Kiveton 446/7/8.) Truck-mixed and pre-mixed concrete, washed and crushed gravel, concreting sand, building sand, crushed and graded stone.

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel could be collected ex-quarry or delivered

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details see Derbyshire.)

SLATER BROS. (WHITLEY), LTD., Whitley Bridge, near Goole. (Tel.: Whitley Bridge 300 and 316.) Washed and crushed gravel. Concreting sand, building sand, crushed and graded stone, natural white stone for crazy paving, terrace walls and house building.

STANLEY FERRY GRAVEL CO., LTD., Norwich Union Building, City Square, Leeds, 1. (Tel.: Leeds 26361.) Washed, crushed and natural graded sand and gravel. Supplies to specification, large daily production. Centre of Yorks. West Riding market Pit: Wakefield.

WELBECK SAND AND GRAVEL CO., Parkhill, Wakefield. (Tel.: Wakefield 4454.) Washed sand and gravel.

WEST RIDING GRAVEL CO., Norwich Union Building, City Square, Leeds, 1. (Tel.: Leeds 23562.) Modern 1,000-ton daily plant produces washed grit and soft sands. All aggregates to specification. Competitive Yorks. West Riding to Lancs. border. Pit: Wakefield.

WHITAKER, B., AND SONS, LTD., Eiland Road, Leeds. (Tel.: Leeds 75207.) Washed, graded sand and gravel. Aggregates supplied to specification. Quarries at Wakefield, Ripon, Masham.

X.L. GRANITE (INGLETON), LTD., Head Office: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

SUBSCRIPTION ORDER FORM

To THE CONTRACT JOURNAL CO. LTD.,
32 SOUTHWARK BRIDGE ROAD, LONDON, S.E.1

Please forward "THE CONTRACT JOURNAL" *each week for which I/we enclose £*.....

SUBSCRIPTIONS

£5 - 4 - 0 per year, post free

£2 - 12 - 0 half-yearly, post free

Payable in Advance

Name.....
(BLOCK LETTERS)

Full postal address.....
— (BLOCK LETTERS)

.....

Occupation/Business.....
(For Readership Classification Purposes Only)

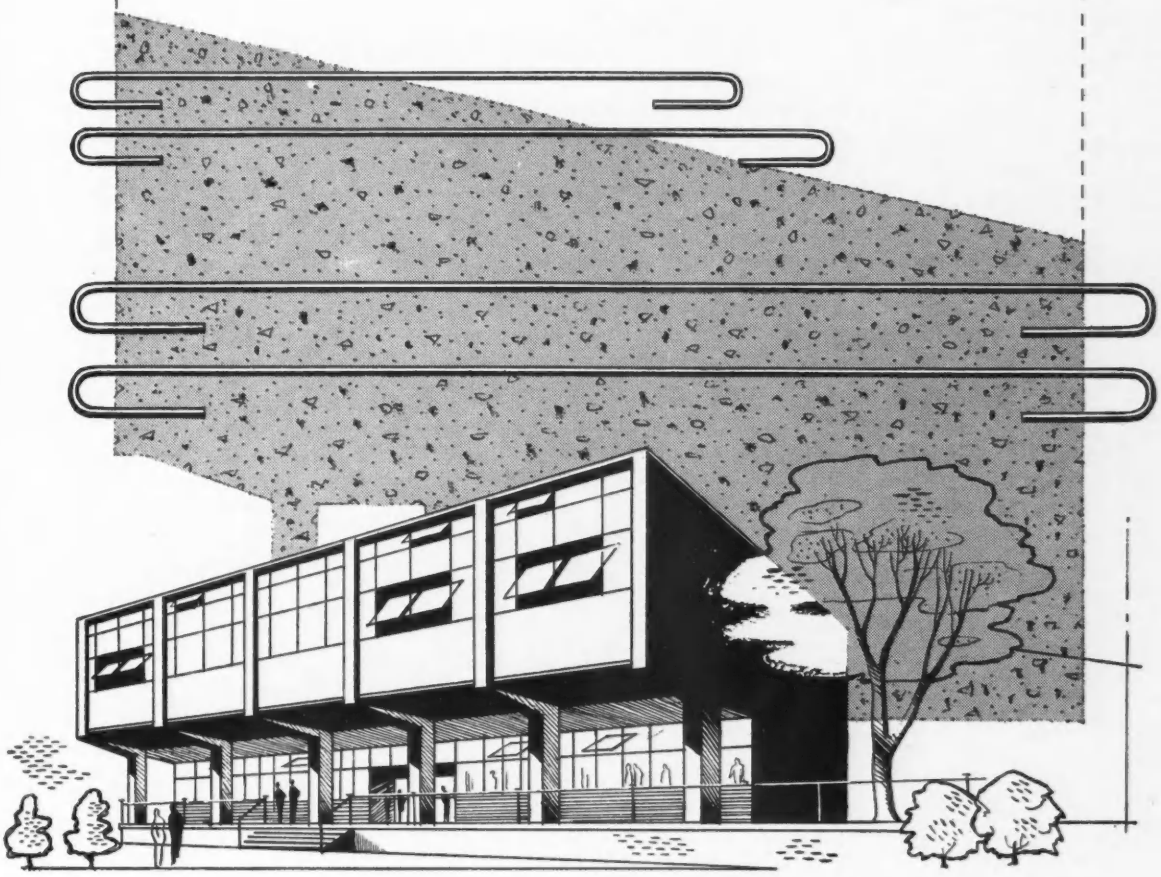
4206

THE INDEX TO DISPLAYED ADVERTISEMENTS WILL BE FOUND ON PAGE 576

London: Printed and published by the Proprietors, The Contract Journal Company, Ltd., 32 Southwark Bridge Road, S.E.1. Thursday, February 4, 1960. Registered at the General Post Office as a newspaper.

reinforcement

BY PASHLEY & TRICKETT



Give us your bending and delivery schedules and we do the rest. Accurately bent steel reinforcement for all types of concrete construction is delivered on site as and when you want it by our own road transport —each batch clearly identified. All enquiries are dealt with promptly.

P&T

Pashley & Trickett Ltd

STOKE STREET · SHEFFIELD 9

TELEPHONE: 41136-7

PT5

FOR BRITAIN'S NEW MOTOR ROADS

IN keeping with the advanced techniques employed in the vast Road Developments now taking place all over Britain, the new Bedford 7 ton Dumper fitted with Pilot Standard U 10 D Tipping Gear fits right in the picture.

All-Electric Welded Heavy Duty Steel Bodies of approximately 6 cub. yds. capacity, Cab operated Tipping Gear with a Tipping Angle of 55° and a low initial cost makes this the perfect investment for the exacting requirements of a Middle Range Dumper.

Bodywork to Standard or Individual requirements can be supplied in Alloy, Steel or Wood

PILOT Hydraulic Tipping Gear

PILOT WORKS LTD., Manchester Road, Bolton
Tel: Bolton 5545

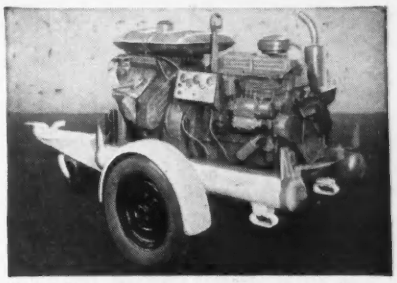
LONDON OFFICE: 3 Southampton Place, W.C.1
Tel: CHAncery 5130.

VT4F compressor powering three Atlas Copco E20 (medium weight) paving breakers.

No other machine—piston or rotary—delivers so much air for its size

25% smaller and 20% lighter than any other compressor of comparable capacity, the VT4F is a rugged, manoeuvrable portable in the true Atlas Copco tradition. Weighing only 22½ cwt, it is the only compressor with the Ford 592E four-cylinder industrial engine to give a guaranteed 140 c.f.m.—enough power to operate two of the heaviest concrete breakers continuously.

The compressor is of a new low-friction design which cuts power consumption to a minimum. The crankcase, bellhousing and cylinder ducting is a single welded unit thus reducing the weight of the unit and giving an excellent capacity/weight ratio. The simple design of the compressor, and the use of the well known Ford engine, means that every working part of the compressor can be serviced by local mechanics anywhere. Full details of the VT4F are available from your nearest Atlas Copco branch office.



The VT4F is compactly assembled under a canopy which can be completely removed in a few minutes to give maximum access.

Loading is quick and easy—with a built-in lifting eye at point of balance. Towing is fast and safe—with low-slung, independent torsion bar suspension and complete overrun brake equipment to comply with Road Traffic Act requirements.

Atlas Copco
COMPRESSED AIR ENGINEERS

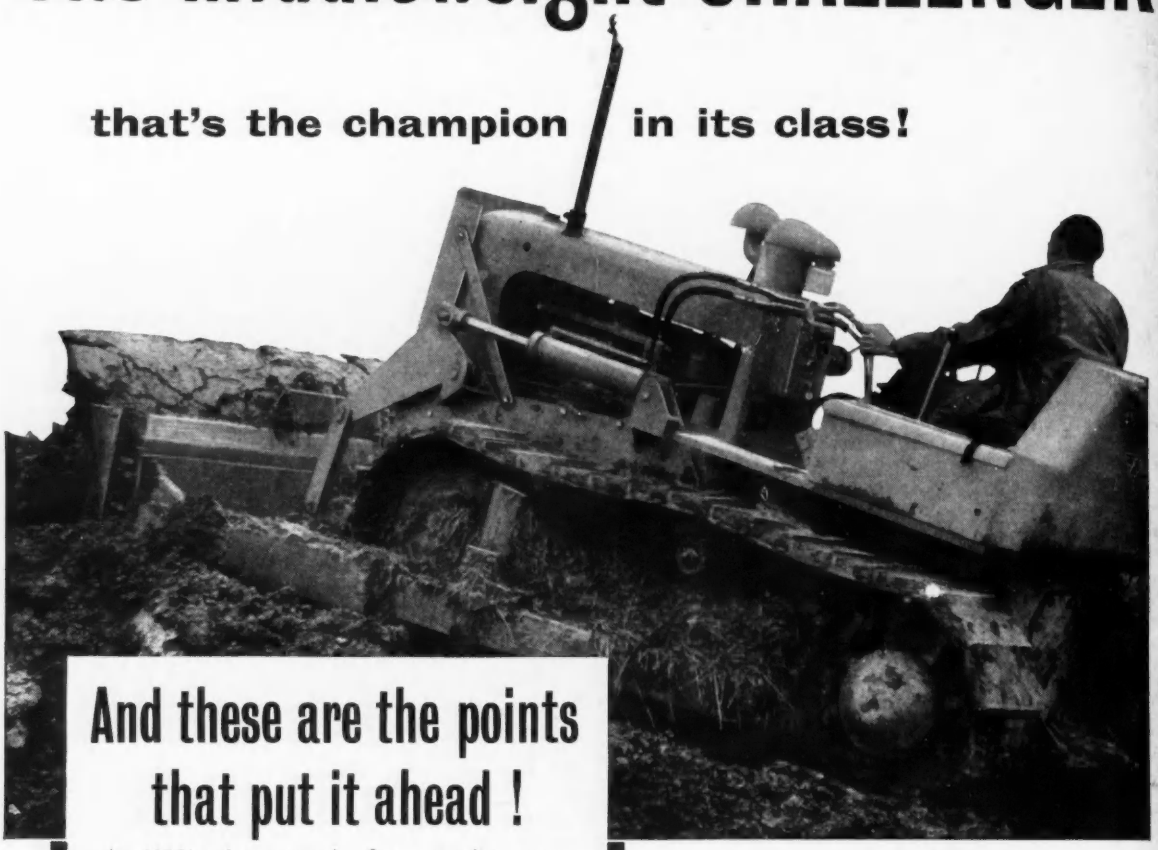
ATLAS COPCO (GREAT BRITAIN) LIMITED

Maylands Avenue · Hemel Hempstead · Herts · Boxmoor 6040

Sales & Service Depots at: LONDON · BRISTOL · CARDIFF · MANCHESTER
WALSALL · LEEDS · GLASGOW · BELFAST · DUBLIN

The middleweight CHALLENGER

that's the champion in its class!



And these are the points that put it ahead !

- ★ 100% unit construction for easy maintenance.
- ★ "In seat" 24 volt starting.
- ★ High-efficiency low-loss low load transmission, resulting from precision ground gears, wholly running on anti-friction ball and roller bearings and single spur type reduction final drives.
- ★ Six forward and four reverse speeds each matched to high engine torque rise give continuous maximum output in each gear for every job.
- ★ Most of your dozing and scraping can be carried out in second gear.
- ★ Rugged deep-section fully cross-braced hull to withstand maximum dozer shock. Massive track suspension *independent* of final drives.

THE FOWLER CHALLENGER 22

Powered by the high-efficiency direct injection Leyland 350 Industrial Diesel, the Challenger 22 gives a drawbar pull of 18,000 lb. With such power in front of you, dozing under average conditions is normally carried out 2 m.p.h. in second gear. Prove it for yourself ! Demonstrations gladly arranged on request.

THOS. W. WARD LTD

ALBION WORKS, SHEFFIELD. PHONE 26311

London Office: Brettenham House, W.C.2. Phone TEM 1515

Sales & Service Depots: SHEFFIELD 26311 GLASGOW, SCOTSTOUN 8083

BRITON FERRY 3166 GRAYS, THURROCK 4764 & 4806 COVENTRY, BEDWORTH 3011 LONDON, TEM 1515 (MON. TO FRI.)

CH 36